

<223> n equals a,t,g, or c

<400> 765

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ccagcacctt gggaggccga ggtggccaga tcattgaggt caggagtttg aaaccagcct 180
ggccaacatg gtgaaacccc gtctctacta aaaatacaaa aattagccag gtgtgtgggg 240
cgtgcgcctg tagtcccagc tacttgggag gctgaggcag gagaatcgct tgagcctggg 300
aagcagaggt tgcattgggc gggatcacgc cactgcactc cagcctgggt gcagcaaga 360
ctccatctaa gaaaacaaaa aaaaaaagta cgattgggtg gccagagtga acacaaaatg 420
taaagacttg tgtatttggt agancctttt gaagcatgct atctcccag ctamaccctc 480
ttcaggtgcc ctttccctgc tctcctgct tttcaaaactg tggctcgtgg ttccaggctc 540
aagcacggac atcagtragg actgggagaa agacttttrac ttggacatga ctgaagagga 600
ggtgcagatg gcactttcca aagtggatgc ctccggggag gtgagtgggc ctggtgggtc 660
agagggaagc gagcctaata gtctctgggtg tgagagetct cccagccag cccagctgtc 720
ccctcaggag ggtccctgct cctgtytgag gtgacagggtg gtgggaagg agctggagct 780
tcctgctcag acccacaaca ttggtcatca gcaggytgca cttttcctca gttccagggt 840
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gnccaaggtg ggaggattgc ttgaggcgag gagttcaaga ccagcctggc caatatagtg 1020
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<210> 766

<211> 1311

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1036)..(1036)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1112)..(1112)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1168)..(1168)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1223)..(1223)

<223> n equals a,t,g, or c

<400> 766

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catcagtgtc ctgggaacca gctgggcaga tgtggtacac ccatgtcaga taccagtg 180
gcaggctcct gtcactgtag aacttgggtc ctccatccct cccagccttc ctagctcctt 240
gtccttgga acctcccccc atcaatctct gacatttcag aggaaatact gtttgtcacc 300
tcttaaggaa tctgggagga cggcctgtga gatatggcgt cagttacagc ctcttaagaa 360
gtcaatagcc cctgcagagg ccagaacact ggaacaaatg taagggaagg aagttttta 420
aagatttttg acttgaatta aataggattg gttacttctt gccctcccag aggggtggact 480
gtgcacagaa gagacctctt caccgggttt gctgctcttt ttcgcactgt gagttggggt 540
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tctaacagtc	agcggttggtc	cataacaaaa	tggaaatcct	ttctttcccc	tcctgttaat	600
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aagtgccctt	cgtgttcctg	gattctctct	tctgtggttc	catttctttg	agtcctgggt	720
tctcgccctg	aatggctcaa	cagggggaaa	ggcagacagc	ttcttcgtgc	cagaaacatt	780
tttttttttt	tttgaaatar	tgagccaaga	ttgcgccact	gcatttcctc	ctcagcaaca	840
garcaagact	ccaactcawa	acaaaacaaa	agattgargt	wattgtggca	acacctgcct	900
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taagaaaatg	gggtgaaggc	aancattacg	gttgggaaaa	gccatgcaa	gccttttatag	1260
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<210> 767

<211> 718

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (678)..(678)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (687)..(687)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (699)..(699)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (708)..(708)

<223> n equals a,t,g, or c

<400> 767

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gacaagctga	gcacctggat	cagtaaaggc	ttatgtctct	tatttggcgt	gatgtgtacc	180
tctatggctg	tggtgcatc	tgtcatggga	ggtgttgtgc	aggcttccct	cagcattcac	240
ggcatgtgtg	gaggaccaat	gctgggctta	ttctccctgg	gaatcgtgtt	cccttttggt	300
aattggaagg	gtgcactagg	aggtcttctt	actggaatca	ccttgtcatt	ttgggtggcc	360
attggggcct	tcattttacc	tgcacagcc	tctaagacat	ggcctttgcc	tctatcaaca	420
gaccaatgta	tcaaatcaaa	tgtgacagca	acagggcctc	cagtactatc	cagcagacct	480
ggaatagctg	atacctggta	ctcgatctcc	tacctttact	acagtgcagt	gggctgctta	540
ggatgcattg	ttgctggagt	aatcatcagc	ctcataacag	gtcgccaaag	aggtgagat	600
attcaaccac	tggttaatta	gaccagtttg	taattttaatt	tgctttttgt	ctaagaaagt	660
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<210> 768  
 <211> 614  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (52)..(52)  
 <223> n equals a,t,g, or c

<400> 768  
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 gtggaggaat taaaacagag aaactggagt ttataaaaca gagcccaatc cttgcttct 180  
 ctccctccac tcaaatagaa aaggagaatg gagaaagaga aagaaggat taggctacag 240  
 ttataagag agatgagaaa aaaatacatt tgggaataga gggaaaggggt caaaaggggt 300  
 cacatttgga gaaatatctg aaaatgagaa ggagcagaat ttttggaac attttttaa 360  
 gtctggcaac gctaattaag ctgttgatct aaggatttgc aaattgagag gtgcaattat 420  
 tttccaaatg atttgtgaca ctcttattaa ttagaatata tattctgtga atattgaaat 480  
 ctgagccaaa actagttagc tttattaata tcttagggaa agaagagaga aagaaagagg 540  
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 aaaaaaactc gtag 614

<210> 769  
 <211> 465  
 <212> DNA  
 <213> Homo sapiens

<400> 769  
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 cctgggtggc gtgggtccgcg tggccgagta ccgaaaccac tggtcggacg tgctggctgg 180  
 cttcctgaca gggggcgcca tcgccacctt tttggtcacc tgcgttgatg ataactttca 240  
 garccggcca ccctctggcc gaargctctc tccccaragt gcctaccctcgccctgcctgg 300  
 gcctyagttt ccacatctgc acaatggggg tgaccatccc tgccctgctg gctgcaggag 360  
 cgctgtgtag tcttcagcgt ggatgcagcc tgggggaagc catagggcag ctttcacagg 420  
 cctggcctta ccatgggcgg gagggagacc gcatccgaag aggag 465

<210> 770  
 <211> 1194  
 <212> DNA  
 <213> Homo sapiens

<400> 770  
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 tgagaagaaa tggccaaacg caccttctct aacttggaga cattcctgattttcctcctt 180  
 gtaatgatga gtgccatcac agtggccctt ctcagcctct tgtttatcac cagtgggacc 240  
 attgaaaacc acaaagattt aggaggccat tttttttcaa ccacccaaag ccctccagcc 300  
 acccaggct ccacagcgc ccaacgctcc acagccaccc agcattccac agccaccag 360  
 agctccaaca gccaactcaa acttctccag tgcctttaac cccagagtct cctctatttc 420  
 agaacttcag tggctaccat attggtgttg gacgagctga ctgcacagga caagtagcag 480  
 atatcaattt gatgggctat ggcaaatccg gccagaatgc acagggcatc ctcaccaggc 540  
 tatacagtcg tgccttcac atggcagaac ctgatgggtc caatgaaca gtgtttgtca 600  
 gcatcgacat aggcatggta tcccaaaggc tcaggctgga ggtcctgaac agactgcaga 660  
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gaagtccgta	ttcttacctt	caaaatccgc	agtcagagag	agcaaggat	tcttcaaata	960
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tggaatgatg	tattccctgg	ccttgaaata	aggaatctag	tacccatgtt	tgtgctactg	1140
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<210> 771  
 <211> 2334  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (2278)..(2278)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2290)..(2290)  
 <223> n equals a,t,g, or c

<400> 771						
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cggggccctga	tgcgggactt	cccgtcctg	gacggccaca	acgacctgcc	cctggctcta	420
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gacactcaga	aattggcctg	cctcatcggt	gtagaggggtg	gccactcgct	ggacaatagc	720
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cctgtgatct	tctcccactc	ggctgcccgg	ggtgtgtgca	acagtgtctg	gaatgttcct	1020
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aaattccctc	aggggctgga	agacgtgtcc	acatacccag	tectgataga	ggagttgctg	1260
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cgtattataa	gctaggcact	ggcgtcgtt	ttacaacgtc	gtgactggga	gatctgctag	1860
cttgggatct	ttgtgaagga	accttacttc	tgtggtgga	cataattgga	caaactacct	1920



acagagattt	aaagctctaa	ggtaaata	aaatttttaa	gtgtataatg	tgttaaacta	1980
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ttcaggcccc	tcagtcctca	cagtctgttc	atgatcataa	tcagccatac	cacatttgta	2160
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aatgcaattg	gtggtggtaa	cttggttaat	ggagcttata	atggtaccaa	taaagcantg	2280
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<210> 772  
 <211> 720  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n equals a,t,g, or c

<400> 772	
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gcaccgccat	cagctgttcg
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atcctgttct	tcgtgctcta
acgtgacctg	atgtggctca
gcaactgagcc	ctcaacccaa
ttgcctaagg	gggcataatct
ccctcctcc	tgccataccc
ttttacaccc	agtgccctctg
gcccagggag	ggaaggttct
cgccctcgggc	ggaacctgga
gcctgacggg	cttagtgctc
accgggatta	ccgcgcgctc
gacctcaggtt	gcctgsgggac
gttctgtcta	cctggscctgg
aatcaccacc	tatgctatca
ccccagggca	aggctaagag
tttgcttttg	catgtgagcc
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tggtgccacac	gctcgtctct
tctccaaagc	tctttccatt
tcaaaaaaaaa	aaaaaaaaaaa

<210> 773  
 <211> 759  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (16)..(16)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (22)..(22)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (36)..(36)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (51)..(52)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (57)..(58)  
 <223> n equals a,t,g, or c

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 ggaattcccg ggtcgaaccc caaggggttc gcggacccca gacatgagga ggctcctcct 180  
 ggtcaccagc ctggtggttg tgctgctgtg ggaggcaggt gcagtcccag caccaaggt 240  
 ccctatcaag atgcaagtca aacactggcc ctgagagcag gaccagaga aggcctgggg 300  
 cgcccgtgtg gtggagcctc cggagaagga cgaccagctg gtggtgctgt tccctgtcca 360  
 gaagccgaaa ctcttgacca ccgaggagaa gccacgaggt cagggcaggg gccccatcct 420  
 tccaggcacc aaggcdtga ttgagaccga ggacaccctg ggccgtgtcc tgagtcccga 480  
 gcccgacctat gacagcctgt accaccctcc gcctgaggag gaccagggcg aggagaggcc 540  
 ccggttggtg gtgatgccaa atcaccaggt gctcctggga ccggaggaag accaagacca 600  
 catctaccac cccagtagg gctccagggg ccatcactgc ccccgctg tcccaaggcc 660  
 caggctgttg ggactgggac cctccctacc ctgccccagc tagacaaata aacccagca 720  
 ggccgggaaa aaaaaaaaaa aaaaaaaaaa ggcggccgc 759

<210> 774  
 <211> 733  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (652)..(652)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (675)..(675)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (685)..(685)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (704)..(704)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (719)..(719)  
 <223> n equals a,t,g, or c

<400> 774  
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 aagtgtgctg ctatgcaggg tgagtgaatt actcaataac taaataattg tgacataata 180  
 tattttattt tgcttccctg ttatgatcta cacataaaat tactggagca ttattgctta 240  
 acttcttgta aaaaagttct gcaattgtag tggtattaag aaagtaatat tgatttgtat 300  
 agtgacagag gattttttca gtgkcactt gccagcagag atcttcatgg tgggcattgs 360

ccctgccc	at	gtctcact	tgt	gccctggg	ct	tgcccc	acta	ggtacc	cctgc	ccacct	ggcc	420
aggcagg	ctg	tgcttgg	ctt	gagctct	ggc	ccagat	cctg	cacttg	ctct	gcggct	tgag	480
ccaggcat	gc	catgac	ctac	ttccac	cttg	ggagcc	gcgt	ctggat	gagg	ggaatg	ctg	540
gacactt	gaa	cagaagg	tgg	catgtg	accc	caaagc	ccaa	aagggg	gtg	tacagc	atgc	600
tacagt	cttc	agctaca	tca	cagccac	aat	ggagt	gttgt	gccaa	agtcc	tnccat	gtt	660
gcagcag	aag	gtgtnt	cagg	tacant	tgtt	gactgc	cctg	gggnct	gagt	ctttcc	atnc	720
cagataa	gtg	gct										733

<210> 775  
 <211> 741  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (44)..(44)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (69)..(69)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (79)..(79)  
 <223> n equals a,t,g, or c

<400> 775													
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taccctg	ccg	acctggc	cag	gcaggct	gtg	cttggct	tga	gctcttg	ggc	cagatcc	ctg	180	
cacttg	ctct	gcggctg	agc	caggcat	gcc	atgacct	act	tccacct	tgg	gagccgg	cgt	240	
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aaagggg	gtg	ttacag	catg	ctaamag	ttc	tttcagt	ctc	acatcc	acag	ccaacaa	aat	360	
ggagg	gtgtg	ggtgcc	caga	ggtccct	tct	cccatt	gttt	ggcaag	cagg	aggggtg	tg	420	
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tccaaga	aata	aggtt	gtg	ctgac	gtag	gggtg	agtga	ggcaa	agagt	tttact	cagt	540	
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gggtag	tctt	cccacc	ac	aaaag	tggg	t	agcccc	aaag	gtggc	tgag	c	660	
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<210> 776  
 <211> 951  
 <212> DNA  
 <213> Homo sapiens

<400> 776													
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ccatcccc	at	agggg	acact	tatcct	tttg	ctaaac	ta	ataa	ataat	g	gaaatg	acac	180
ctaata	caat	aacac	ggc	ac	ataaaaa	aga	ttaa	atta	ag	agaagg	gaca	240	
agaggag	tcc	tgagt	atgga	ggagat	gtgt	ctcat	ggaga	agcat	ccggg	ctcagg	tgac	300	
cttcct	gaa	gacttc	ctgt	ctctg	agcag	ctcag	ttcag	ttccg	gtca	tacac	gtact	360	
cctggac	cca	ggayt	ca	ctg	gcac	agact	t	gctt	ctttt	gtttg	gaata	420	
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<210> 777  
 <211> 990  
 <212> DNA  
 <213> Homo sapiens

<400> 777						
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aaaaaaaaaa	aaaaaaaaaa	aaaactcgta				990

<210> 778  
 <211> 1932  
 <212> DNA  
 <213> Homo sapiens

<400> 778						
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aattggtcaa	gaaatgaata	caatgacat	taagtttcta	actcctgacc	tgatcaaaac	780
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cccaggtttc	tgaaccctca	ctactgtaac	caaggactag	gtcacaaaat	tactacagaa	1020
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aaaaaggaaa	atattaggtt	ggtgcaaacg	taattgcggt	ttttgcattg	ttgaaatttg	1860
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<210> 779  
 <211> 1636  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1624)..(1624)  
 <223> n equals a,t,g, or c

<400> 779						
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cctcatcaag	tacgtgaagg	actgcaattg	ccagaagctc	tatttagacc	ggacgtcat	1560
ccgggagggc	agagggacgc	cacgcgtgcc	ctggaggaga	cccagggtgag	cctggacgar	1620
cggnggcaag	ctggac					1636

<210> 780

<211> 645  
 <212> DNA  
 <213> Homo sapiens

<400> 780  
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 cagccccctt cctcatatcc tcaagatggc agagacagcc catggctttt cccttgccaga 180  
 gacagatcac caggaaacaa tacctctatc cctagccatg aaacagtctt gactttatt 240  
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 tgctgcacct ctactaccaa aggccgggct ggccttcctt aaagtgtatg tgctgcgtgg 360  
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 agtcccagtg cctccagcag gaggcaaagc atcaaccctt ccgtctggct cctctactga 480  
 aaattccctc agcagcctca caggccttag gcttgtctta gctacttctt catctacttt 540  
 tttgctttct taattatttt tcttttcttt tttcttattt tattttattt tatttttagat 600  
 ggagtttcgc tccgtcgccc aggctgaagt gcagtttcag acatg 645

<210> 781  
 <211> 729  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (725)..(725)  
 <223> n equals a,t,g, or c

<400> 781  
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 taaatttttag tatattgtta gttgaggtat agttttccaaa caaagagccg tgaaatgttt 180  
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 tgaggagacc agaatgtcag tgtggccacg cagcacactt ttgtttgtc ttctgtcctt 300  
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 gaagttaa atgtgataatga tgtgtgtgag atgcctgcac agtgcctgga ggtattgaag 420  
 aattattgct gcctwttctt tttctaccta ccacttacc cgtacccccg ggtgctacat 480  
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 gccaatagcg tgcagaaaaa aagatgcaat gattttggctt cttttctgtt tggcaataag 600  
 aagcttattt gcmcatagcc tgattttctt caatctgcaa aaaaaaaaaa aaaaaaaaaa 660  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 720  
 rggnnggcc 729

<210> 782  
 <211> 997  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (855)..(855)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (881)..(881)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (916)..(916)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (957)..(957)  
 <223> n equals a,t,g, or c

<400> 782  
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 aaaattgttg ttgacttggg tgtggcacct tggaagctga agatattcca ctgccaagta 180  
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 attgaccgct gtcttcagct gacacacagc tgcaagatct accgaatata agaaccgga 300  
 ttgccaataa tgatatcaac cgttgtgtgg ctaatggtcc ttcttataat ggtgccaaat 360  
 atgatgattc ccatcaaaga catcaaggaa aagtcaaagt tgggttggtat ggagttaaa 420  
 aaggaatttg gaagaaattg gatttgctg acaaatttca tatgtgtagc aatattttta 480  
 aatttctcag ccatcattht aatatccaat tgccttgtaa ttcgacagct ctacagaaac 540  
 aaagataatg aaaattaccc aaatgtgaaa aaggctctca tcaacatact tttagtgc 600  
 acgggctaca tcatatgctt tgttccttac cacattgtcc gaatcccgtat tccctcagc 660  
 cagacagaag tcataactga ttgctcaacc aggatttcac tcttcaaagc caaagaggct 720  
 aactgtctcc tggctgtgtc gaacctgtgc ttgataccta tccgtgtacta tcacctctca 780  
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 gggctttatg ggacnataa gttattatag cttggaaggc aaaaaaaaaa aaaggngggg 960  
 cgctctagag gttccccgag gggccagctt aggggtgc 997

<210> 783  
 <211> 437  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (422)..(423)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (427)..(427)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (437)..(437)  
 <223> n equals a,t,g, or c

<400> 783  
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 ttggccaccc tctcctcct cctccttgga ggcgtcttg cccatccaga ccggattatt 180  
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 cagaggcccc tggctcggga cagccgcacc tcccctgcca actgcacctg gctcacaaaa 300  
 agagtgaac aaatgcttct attccatagc tacggcattg ctcaagtaagt tgagggtcaa 360  
 aataaaggaa tcatacatct caaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 420

annaaanaaaa aaaaaaa

437

<210> 784

<211> 1084

<212> DNA

<213> Homo sapiens

<400> 784

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<210> 785

<211> 1168

<212> DNA

<213> Homo sapiens

<400> 785

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gtgaaaaaatt	ggcttagctt	tcagtatgcc	tcttttaaca	aaacattatc	atttttataca	480
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<210> 786

<211> 616



<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (3)..(3)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (592)..(592)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (611)..(611)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (613)..(613)  
<223> n equals a,t,g, or c

<400> 786  
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catccaagtg agattctgaa gttgggctgg cgagtacacg aatggctttc ttactagaga 180  
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<212> DNA  
<213> Homo sapiens

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<210> 788
<211> 1842
<212> DNA
<213> Homo sapiens

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<220>
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<222> (67)..(67)
<223> n equals a,t,g, or c

<220>

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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

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 gttgcagaat gaagaagagt ctggagaacc tgaacaggct gcagggtgatg ctccctccacc 180  
 ttacagcagc atttctgcag agagcgcaca tnatTTtgac tacaaggatg agtctgggtt 240  
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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaanaa aa 1842

<210> 789  
 <211> 1963  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (335)..(335)  
 <223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1959)..(1959)
<223> n equals a,t,g, or c

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cagcggccgc gcccttcag ctagctcgct cgctcgctct gcttccctgc tgccggctgc      180
gcatggcktt ggcgttggcg gcgctggcgg cggtcgagcc gcctgcgcag ccggtaccag      240
cagttgcaga atgaagaaga gtctggagaa cctgaacagg ctgcagtga tgctcctcca      300
ccttacagca gcatttctgc agagagcgca gcatnatttt gactacaagg atgagtcctgg      360
gtttccaaag ccccatctt acaatgtagc tacaacactg cccagttatg atgaagcggg      420
gaggaccaag gctgaagcta ctatcccttt gggtcctggg agagatgagg attttgtggg      480
tcgggatgat tttgatgat ctgaccagct gaggatagga aatgatggga ttttcatggt      540
aacttttttc atggcattcc tctttaactg gattgggttt ttctgtctt tttgcctgac      600
cacttcagct gcaggaaggt atggggccat ttcaggattt ggtctctctc taattaaatg      660
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aggattaggt acttaggagc aaagaaagaa gtagcttgga acttttgaga tgatccctaa      1740
catactgtac tacttgcttt tacaatgtgt tagcagaaac cagtgggtta taatgtagaa      1800
tgatgtgctt tctgcccaag tggtaattca tcttggtttg ctatgttaaa actgtaataa      1860
caacagaaca ttaataaata tctcttgtgt agcaccttta aaaaaaaaaa aaaaaaaaaa      1920
aaaaaaaaaa aaaaaaaaaa aaaaaaana aaaaaaana aaa      1963

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<210> 790
<211> 1487
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1470)..(1470)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1487)..(1487)
<223> n equals a,t,g, or c

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<210> 791  
 <211> 1653  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (212)..(212)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (1636)..(1636)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1653)..(1653)  
 <223> n equals a,t,g, or c

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gttgcagaat	gaagaagagt	ctggagaacc	tgaacaggct	gcagggtgatg	ctcctccacc	180
ttacagcagc	atttctgcag	agagcgcaca	tnattttgac	tacaaggatg	agtctgggtt	240
tccaaagccc	ccatcttaca	atgtagctac	aacactgccc	agttatgatg	aagcggagag	300
gaccaaggct	gaagctacta	tccctttggt	tcctggggaga	gatgaggatt	ttgtgggtcg	360

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ggatgatttt gatgatgctg accagctgag gataggaaat gatgggattt tcatgttaac 420
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atgtgctttc tgcccaagtg gtaattcatc ttggtttgct atgttaaaac tgtaaatata 1560
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<210> 792
<211> 1830
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (67)..(67)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (97)..(97)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (211)..(211)
<223> n equals a,t,g, or c

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<220>
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<222> (1813)..(1813)
<223> n equals a,t,g, or c

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<220>
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<222> (1830)..(1830)
<223> n equals a,t,g, or c

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ttgcagaatg aagaagagtc tggagaacct gaacaggctg caggtgatgc tcctccacct 180

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accaaggctg	aagctactat	ccctttgggt	cctgggagag	atgaggattt	tgtgggtcgg	360
gatgattttg	atgatgctga	ccagctgagg	ataggaaatg	atgggatttt	catgttaact	420
tttttcatgg	cattcctctt	taactggatt	gggtttttcc	tgtctttttg	cctgaccact	480
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<210> 793  
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (14)..(14)  
 <223> n equals a,t,g, or c

<400> 793						
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tggaagttgt	ggaatccact	gttctctcaa	accggtctct	ttcccttgta	cctatcatag	180
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aagatgtcct	gtcaaagcaa	gtcattgaac	ttacctggta	tttaactgaa	aacaaacaaa	300
aatcagcaat	ctcttccatt	gcttgtagaa	atactgactt	aggccaggca	cagtggtcct	360
cgtctaatacc	cagcactttg	agaggccaag	gcaggagtat	catttgagcc	caggagttcg	420
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gagggagggg	tggagccaga	ggaggggagg	ggacactctg	ttatacttat	cgaaaggtgc	540
tatccagggtg	tggtagtgca	gccgatagtc	tcagctactc	aggaggctga	ggtggagga	600
tcacttgagc	tcaggagttt	gaggctgcag	tgagctatga	tggtaccatg	tactccagcc	660
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<210> 794  
 <211> 2027  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (294)..(294)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1976)..(1976)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1981)..(1981)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1985)..(1985)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2021)..(2021)  
 <223> n equals a,t,g, or c

<400> 794

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cagtggggaa	ggacagccga	cccttggggg	gaccgggggtg	cccaccaggc	gcccgcggc	960
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ttggaaacaa	atagaacaca	atataattta	cattaaaaaa	taattttctac	caaaatggaa	1860
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ataaaaaata	aaaattaaag	gattgttgat	aaaaaaaaaa	aaaaagggcg	gccgcncatg	1980
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<210> 795  
 <211> 699  
 <212> DNA  
 <213> Homo sapiens

<400> 795						
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tgcccttaata	gtcacaaaact	taatcctaata	taaatacata	cctttcccct	aagttttctt	180
atcttcaggc	tacagaatta	ttgagattac	tctcaaccat	tcctcatgtt	agaaactctt	240
tctcaatttta	tttccatcct	ctttgtcctt	ctctggataa	tctcagattt	gatactgtgt	300
tttcttaaat	gtggtaatcc	cggaactcta	gatatgggtc	ttcctatttg	gactaatcag	360
tatatacatt	ccagtagatc	cattttgtcc	tttatctaga	tacagtattt	ctagtagctt	420
gaaasycatt	gcctttttaa	agttgtttta	ggattaaaaa	tcacaaacca	aatatccact	480
gtcctcaaga	gaatcaccta	acaccataa	ggattctgt	agactcatgg	taaaggggta	540
gctattgttt	tatatcagat	agcaggagta	gctattcttt	tatatcagat	aaaacacatt	600
aaagcaacat	gaataggcat	ttgttaaaag	raggatattc	caaatagtca	acacatatta	660
aagggaattcc	ccaaccatcc	actaaatgat	ccaggggaa			699

<210> 796  
 <211> 1649  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1249)..(1249)  
 <223> n equals a,t,g, or c

<400> 796						
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ggaagcagcc	ccagcatcag	ggacaggcca	ggagtgcaga	atgcatggaa	gctggtcagg	240
tcggagcctg	ggatgaagga	agcacagaga	tgcaagggtg	ccagggccca	tggaaccaag	300
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aaggattaaa	aagcatgggc	caaggctggg	ccccaggcca	ggactgggga	tacagagtgg	420
atcagtcccc	atccctgccc	ccagggtgctt	accacacccc	attcacctca	caggtttccc	480
caccccagcc	ccttggcgag	ctcctctca	ttcctcaaar	cgctcgctkag	gtcacgctcc	540
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gtcagagagc	tccgtggcct	gtttccactg	gactgagtct	tctggggggg	gctggtgcag	660
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<210> 797  
 <211> 1570  
 <212> DNA  
 <213> Homo sapiens

<400> 797						
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ccctgggctg	ggagtcccgg	cacctcgttc	cactccctca	cccacagcct	cgctgtttaa	660
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<210> 798  
 <211> 692  
 <212> DNA  
 <213> Homo sapiens

<400> 798						
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ccaaataatt	cctatggaca	tccatggcag	cttcattcta	tctgagctgg	agattttggga	480
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agattcttcc	tgggggtaaa	gagagatagg	tgggtctaata	catccaggga	ataaaatgcm	600

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 tttaatagtc aggaaactca actttccatg aa 692

<210> 799  
 <211> 1654  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (872)..(872)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1516)..(1516)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1564)..(1564)  
 <223> n equals a,t,g, or c

<400> 799  
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 tcttttgctt attaacgtcc tctcctaaat tcctcatgtg gtccgtgtc ctaaattttt 300  
 ttggcgctag acgacgaagc ccgggcactt accccagaca acaccaccac ttcaatagaa 360  
 tgtacaggcc ccgcaatccc aatcttcccc aggatgtaga aaccagagc agagtgttt 420  
 ggggggtccc tggcggtggt aggatgtagg gcatgcacag acaaatccca tccgccacac 480  
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 ttgtttgtct gtattacagt tgctccactt aatttgttgt gcatgtgttc catcttacca 600  
 gactggtgca agtgttgga acttcagatt ggtaactggt gcacaccaag cctgcttcac 660  
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 gaaactgcat ttagnntttt ctcaactga atctgcagac tcaagctaty cacatacaat 1560  
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 ccttggggga wtggactcaa tgcagctgac tggg 1654

<210> 800  
 <211> 447  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (14)..(14)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (18)..(18)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (435)..(435)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (445)..(445)  
 <223> n equals a,t,g, or c

<400> 800  
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 ataataattat agactatgga ctatttgtca tagatgtttc tatgtttgt tctctgcaaa 180  
 ttttaagaaag ttaactattt tcttaaagtt ttgatttcta atttctcgat ttggggcatac 240  
 gaccaccact agcaaagtgc atcagagtac aaaaaatgga aacagaggct atcattaata 300  
 atacattact tcactattga cgggatgacc gtgggttttg aagcttatga gttcaaaagt 360  
 cctcttttaa gtatttttca attctgtcc cgaagtgggt gaagtgtgtg gtgggtggcca 420  
 accaaccaat taatnggttg ggttncc 447

<210> 801  
 <211> 641  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (4)..(4)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (11)..(11)  
 <223> n equals a,t,g, or c

<400> 801  
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 ttccttttaca ggagactttt tgcgagcatc agtgtttcat ttcacaactc accatgtgta 180  
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<210> 802  
<211> 1763  
<212> DNA  
<213> Homo sapiens

<400> 802  
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<211> 1274  
<212> DNA  
<213> Homo sapiens

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<210> 804

<211> 847

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (20)..(20)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (24)..(24)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (37)..(37)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (49)..(49)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (96)..(96)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (116)..(116)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (193)..(193)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (199)..(199)

<223> n equals a,t,g, or c

<400> 804

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<210> 805  
 <211> 652  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (392)..(392)  
 <223> n equals a,t,g, or c

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ctgccagctt	ctgggagctg	caggggcaga	ggcagggagc	tgtcaggcat	tcagccagca	240
agacgcactc	agtacccact	tgggggttcag	aatccccctc	cctatcttc	agatggggcca	300
gatgtcccca	aagccagcgg	cccctttctg	tttcaccctg	tctacagaat	aaacccccag	360
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tcatgggttt	ttaggggtgg	ggtgggatta	gcatgtccag	ctgctttcca	gtttccaaaag	600
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<210> 806  
 <211> 1124  
 <212> DNA  
 <213> Homo sapiens

<400> 806						
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<210> 807  
 <211> 660  
 <212> DNA  
 <213> Homo sapiens

<400> 807						
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ctttggaaaa	aatgaagaaa	ttcctaggaa	gcaaaggagg	aagatctacc	acagaagggt	180
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aacagttttt	acaccagtag	caagacttcc	tattgttaac	tttgattata	gcatggagga	300
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<210> 808  
 <211> 1424  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1391)..(1391)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1406)..(1406)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
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 <223> n equals a,t,g, or c

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cctctatcta	gactcaacaa	ttcttaatat	ttgctttatc	cctgtctttc	tacacatgca	420
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atttgaaagt	aagtttcaga	cattatgaca	cctactccta	attcctcatg	ttttttctaa	540
gaataaggat	attatcttac	ctaacatata	ttttatcaa	cctacaaaaa	ttaacaattt	600



tatatcta	attagttcat	gtttaggttt	tgctgtttt	ccccaaatg	tcttttacag	660
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<210> 809  
 <211> 2409  
 <212> DNA  
 <213> Homo sapiens

<400> 809						
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aaaaaaaa						2409

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 <211> 876  
 <212> DNA  
 <213> Homo sapiens

<400> 810						
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 <213> Homo sapiens

<220>  
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 <213> Homo sapiens

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<220>  
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<220>  
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 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (381)..(381)

<223> n equals a,t,g, or c

<400> 813

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<210> 814

<211> 1500

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (8)..(9)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (417)..(417)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1431)..(1432)

<223> n equals a,t,g, or c

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<210> 815  
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 <213> Homo sapiens

<220>  
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<210> 816  
 <211> 3095  
 <212> DNA  
 <213> Homo sapiens

<400> 816  
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 ttgcacggag atatattaag cccttgcaact aaaaatgctg gtactgttta aattcctccc 180  
 gttgacttca agtgggcgct ttttatccgt aacattgtat caccgggtgc accaccagac 240  
 gtttttcgca ggagcgaagt cattctctcc ggcgctctaca cttaacttgt atatttgttc 300  
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 <212> DNA  
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 <223> n equals a,t,g, or c

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<220>  
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 aagaagccaa gaagaagaaa gaggatgccc tgaatgacac caaggattca gaaatgaagc 360  
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<210> 818  
 <211> 518  
 <212> DNA  
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<220>  
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 <223> n equals a,t,g, or c

<220>  
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<220>  
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 <223> n equals a,t,g, or c

<220>  
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 aagaagccaa gaagaagaaa gaggatgccc tgaatgacac caaggattca gaaatgaagc 360  
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 cacaaggcctt ggtttggcca nccaggtttg aaggagtt 518

<210> 819  
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 <212> DNA  
 <213> Homo sapiens

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atggcagggtg tctgagttct gtcgcccccg cgatgagcga taggccccta gagagagctc     1500
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ctccctctg gactctgcat tgtaacaccg tgttcactga tcatgggaag aactcctgtg     1620
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<210> 820
<211> 606
<212> DNA
<213> Homo sapiens

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<220>
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<222> (591)..(591)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (593)..(593)
<223> n equals a,t,g, or c

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<220>
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<223> n equals a,t,g, or c

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<220>
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<223> n equals a,t,g, or c

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<210> 821

<211> 841

<212> DNA

<213> Homo sapiens

<220>

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<223> n equals a,t,g, or c

<220>

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<222> (29)..(29)

<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<221> misc\_feature

<222> (57)..(57)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (101)..(101)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (703)..(703)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (779)..(779)

<223> n equals a,t,g, or c

<400> 821

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c						841

<210> 822  
 <211> 868  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (23)..(23)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<400> 822						
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gggacatgct	gctggccaat	aagtgccag	ctgccgcccg	tgtgtgtgcc	atagcccat	240
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aagcaaagga	agagtcggag	gaawcggatg	agagkattkt	camttcgana	atcagcaaaa	840
gcaacaattc	cagccagttn	attgtgaa				868

<210> 823  
 <211> 1395  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1338)..(1338)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1382)..(1384)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1390)..(1390)  
 <223> n equals a,t,g, or c

<400> 823	
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gccagtgcc	ccaggaacca gcatatccc cagtactgtg gctcctgctg ggcccacggc 300
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<210> 824  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

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<220>
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<222> (260)..(260)
<223> n equals a,t,g, or c

<400> 824
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tgtgatccgc aaggcccaaa cgatgtgact gccaagctcc tctgtccctg atttgggtgt      180
tcctgtctgc agctgtggtc catgatgtgg tgcggaagcc caggcttctc aaagctctta      240
cgttgtctggg attcgggtggn ggggartcgg                                270

<210> 825
<211> 2324
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (15)..(15)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (23)..(23)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (36)..(36)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (92)..(92)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (95)..(95)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (107)..(107)
<223> n equals a,t,g, or c

<400> 825
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gctttatttg tgaaatttgt gatgctattg ctttattttg aaccmttata agctgcaata      180
accaagttac camcamcaat tgcattcatt ttatgtttca ggttcgggg raggtgtggr      240
agggttttta aagcaagtaa amcctctaca aatgtgggtat gsctgattat gatcatgamc      300
agactgtgag gactgagggg cctgaaatga gccttgggac tgtgaatcta aaatacacia      360
mcaattagaa tcaactagctc ctgtgtataa tattttcata aatcatactc agtaagcaaa      420
actctcaagc agcaagcata tgcagytagt ttaacmcatt atacacttaa aaattttata      480
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taagggttcct	tcacaaagat	cccaagctag	cttataatac	gactcactat	agggagagag	600
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cctttttttt	tttttttcat	cttttattta	tttattattt	ttttttacta	aggcacatga	720
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<210> 826

<211> 2075

<212> DNA

<213> Homo sapiens

<400> 826

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<210> 827

<211> 1697

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1627)..(1627)

<223> n equals a,t,g, or c

<400> 827

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<210> 828
<211> 2645
<212> DNA
<213> Homo sapiens

<220>
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<222> (1324)..(1324)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (2645)..(2645)
<223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

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<210> 830



<211> 1063  
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<220>  
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<220>  
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 taaaagaaaa aaacacacat cctggaagtc tgtaagttgt tttttgttac tgtaggtctt 240  
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<210> 831  
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 <212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (3)..(3)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (41)..(41)

<223> n equals a,t,g, or c

<400> 831

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<210> 832

<211> 2522

<212> DNA

<213> Homo sapiens

<400> 832

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<211> 1637

<212> DNA

<213> Homo sapiens

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<221> misc\_feature

<222> (899)..(899)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (901)..(901)

<223> n equals a,t,g, or c

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<211> 1971

<212> DNA

<213> Homo sapiens

<400> 836

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tctgatgcct	ctgtgggtgt	gtgtaagtta	aagtggccac	atttaagaag	gccaagcttt	1440
gtagtggttg	cacagtacaca	ctgatatgct	gatttgcctc	ttctcattgt	atgtctatgc	1500
tttgtcatca	gtgctatagt	aaattacaaa	gaaataggta	gattgtatga	acatacccac	1560



aaatgcctat gatttaggtt accaatgtat tctttctcat ttgggggtttt gcttctgtct	1620
gtctgtttat tggaaacttg tacttcaagt agggggaatc ctaattctaa taactcctta	1680
gctaagtttt attattcagg caataaacat gttttcatgt aaaaaaaaaa aaaaaaaaaa	1739

<210> 841  
 <211> 438  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (61)..(61)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (351)..(351)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (436)..(436)  
 <223> n equals a,t,g, or c

<400> 841	
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nggttttctt aagggaacaa tgctgggaaa gatgataggc gcccgccact gaccctccc	120
gcctccctgc ccctccagta aactcccaca caaaatagca gtatgagggtg tggggaaata	180
atcttggcct ccgtcctggg ttacttttg actctgcc ctacaagctg tcacctgaac	240
aagtcctttc cgttcctgtg tcttccctgg tcacaagctc taagcctgaa cccacactct	300
gggaatgaag cagggtagcg gcctctgctt cagcaactct gaggggtcta ncttgggtg	360
ggagttggcc tcatccagaa ggctgctgga aggccaaagac aaggctctg tggggaagt	420
ttctgagaag ggattnct	438

<210> 842  
 <211> 538  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (462)..(462)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (498)..(498)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (520)..(520)  
 <223> n equals a,t,g, or c

<400> 842	
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catgtgattc agatgcccaa tcttactctg ttactttatg aaaattttt aaagctatat	120

gatgttatat	caaaatatgt	tgttatactt	taggataatc	ggtgtgttag	ccctgaattt	180
cagcataagt	cccatttttt	tccatgggag	tctaggaaag	ctatatgttt	attcagcagc	240
aaaatacagt	ttggaactta	aataaaactat	tgatcaattc	tggctcttatg	ctagaaggaa	300
taaagcatca	agaaaaagaa	aagattgctg	tcaagaccag	gaaaattgac	aatagagtat	360
tagaatgcag	aaatgagggg	aagtggaaar	gccascaagt	aggagagaaa	aagtgcaggg	420
acagtagaaa	gtgaatgtag	gagcttctga	cccagcactc	angaacgcaa	ttcatcccta	480
aaaagctgtt	gcgtctangt	tgccagtaac	caattaaaaa	ccgtttgaag	tagagga	538

<210> 843  
 <211> 1346  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (17)..(17)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (36)..(36)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (107)..(107)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (150)..(150)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (323)..(323)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1307)..(1307)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1337)..(1337)  
 <223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1341)..(1341)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1343)..(1343)
<223> n equals a,t,g, or c

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gaatgcaggt gtgtctgtcc tgcaccccag cttctggctc tggaaancca gctgcatcac      120
ccatgtgcct ggaccttctc cagaccatgn aggcccaggc gagtgactca ctgccattca      180
gtctccatct ttgggcagat ccaccatgag acataacttc ccagaaatcc agttacaagg      240
aggaataagt attgaagact taagaaatgc attttgcagc aggtcctcgc tgaactggg      300
cagcgggtcca ttcataagag ccngctagaa tagagggtcac aagctcagaa gcttctctaa      360
ggcaggcagg aaattttaagt cgatactatg atctgcattg tgggctggaa tgaacggaag      420
gtgcctagtc taaacagctg cttgttgctc agctgttggt gccgtattgg gaattcaagc      480
ctaagtatgt ttgggtattcc cattttcaaa agaagtcagg aaatgcagat ttctatgtaa      540
atttttaaaa cttctgaact gtgtatgagc catacaaaaat acatttgcag gccagtcgac      600
atcctctgat ccagaatatc aatttgtgag acaagttggt ggtgaggcag cattmcatag      660
tagttaaaag catacatttt agagccagac tgcccattgc caaacctgg tcccattcact      720
cactmccctt catttccact ctctttgctt cactttcctc atcagtaaaa taaaaataat      780
atcagtagct acctcatagg gtttcatgag cattaaataa attaaaaccc ataaagtact      840
ttcaatgcta tcaggcattt agttacatgg taaataagtg tttaaaacat ttaaaacaaa      900
agttcaaaaga taataarcaa ggaaacagaa aacctgacag gccagctttg gaaccttctt      960
gatggcagat ctatcaacat ttctcccttt ggctgggatg aaaaggcatt tgggaataaa     1020
agatcccata aaaataaatg agaagaagtg aaacaccttc attatggcaa ttttgggtgc     1080
agagcctaaa agacagaggg atcaaaatat tgcagtacta aatctgatg gtttcatgta     1140
gaaatgagat ttaagcttat taaaatgtat ttctttctgg tgtaataaac ctttcacaag     1200
acctgggcaa ttttgaaaga aggaaagaaa atggttctcc ctgtggacaa raagaaacaa     1260
atgactatta aattttctaa tttggagtga actagggkgr ttcccnagt ttatgtggga     1320
aggtttcagt gagggtnhta nngnaa                                     1346

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<210> 844
<211> 912
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (36)..(36)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (93)..(93)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (158)..(158)
<223> n equals a,t,g, or c

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<220>

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<221> misc\_feature  
 <222> (592)..(592)  
 <223> n equals a,t,g, or c

<400> 844  
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 gaactaagtt gatccctagg tttttgtggg agnccggggt gggggagtc agtggaagc 120  
 aattgctgga gagtagtcct tggtctttgc tgacaganca ggagcagagt gtggaatgaa 180  
 aactcaatag cctcctctat tctcaagaga caattgactt ccatctgttt aaacctcccc 240  
 agggggaccct gctcccccca tttccattta ctctcctttc caccaacctt gggtagacatt 300  
 aagaaaacca aaccattttg aaacacaagc tcttacacat caaaagtcag gggagaagtc 360  
 tgggtgacct gtaagccact gcatgaggca caaagatgca aaaaggaact ttcaggaaca 420  
 actgctgctc cgaggactct atgtcagata taacatccgc tttggcccaa aagtaggctt 480  
 gagccccaga agaggaggaa tgtcmagtat gtttaaaatg tgaaaccttt agttatactt 540  
 gctctttact cagaaaggag agagtattcc cttatgccaa cgaggctctt gngagttgtt 600  
 tgcactattg gtagcagggtg ctgcctgggg tagctcttat ggtctgtgct tgaagtgtgc 660  
 accagctgct gccctggaca tgatgttgg tccctgcata caagcagcca cctttaaaca 720  
 gatcaaatga ctcttatgat gacagctgtc tcactrtact ttcaaactgg ttttaatttg 780  
 gttacttgca acctaagaca gcaracagca ttttagggat gaattgcgtt cctgaagtgc 840  
 atgggtcaga aagctcmtac attcacttty tactgtccct gcactttttc tatctactt 900  
 gctgcccttc ca 912

<210> 845  
 <211> 995  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (12)..(12)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (925)..(925)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (953)..(953)  
 <223> n equals a,t,g, or c

<400> 845  
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 ccagggttcc acctgagtgc tacagtgggt ccacctcaga tgggtccctc taaaggggcc 120  
 tacaacgtgg ctgtgatggt tgaccgtgc cgggtcactt cctgcagctg tacctgtggg 180  
 gctggggcca aatgggtgcac ccacgtcgtg gcaactctgt tcttccgcat ccacaacgt 240  
 tctgcagtct gcttgcgagc cccagtctca gagtccctgt cccggctaca gagggaccag 300  
 ctgcaaaaagt ttgctcagta cctcatcagt gagctccctc agcagggtgg tgaggtcggc 360  
 accccctcct gcaattagct ccgggccagg ccgcataaca gccttcctgt tagggccagg 420  
 cctccatggg ttacacctagg ccgtgttctg cctgcctccg tctctttctc cctcagatcc 480  
 tccccacagc tcagcgtctc ctggackaac tcctgtytcc cagtcaaca gccatcaata 540  
 cagtgtgtgg agctccggac cccacagcag ggccctcagc atcggaccag agtacttggg 600  
 atctggatga atcgacactc actgacaaca tcaaaaagac actgcacaag ttctgtggcc 660  
 cctycctgt ggtcttcagt gatgtgaact ccatgtatct gtcttccacg gagccgccag 720  
 ccgctgctga atgggcatgt ctgctgcgcc ctctgagggg ccgtgagcca gagggcgtct 780  
 ggaacctgct aagcattgtg cgggagatgt tcaagcggag ggacagcaat gctgccccct 840

tggttgaaat	cctcactgac	cagtgcctca	cctatgaaca	gataacaggt	tggtggkata	900
gcgtacgtac	ctcagcctca	cacancagtg	ccagtggca	cacggggccg	ttncaacggg	960
caatcagaag	tggcaaccca	tgccctgtgcc	acatt			995

<210> 846  
 <211> 751  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (146)..(146)  
 <223> n equals a,t,g, or c

<400> 846						
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gggacactct	gtgactatcg	gcttgtgttg	cctctcatgc	tggccagttt	catctttgac	120
gttctctgtg	ctccaggtat	gatgcntgac	cctacagtaa	gtgggggaact	ggggtagggg	180
tagctttctc	taagaaagac	caagagcccc	aagttctga	atcaccttta	ggacccatca	240
ggcagcttca	tgggtaggtc	tgtgatgatg	aggatttttg	gttcccctgt	atTTTTTccc	300
atgcataata	cttctgtctg	cctgacttac	cccaactttt	atacagtggg	ttctcccaca	360
ggttcccgcc	ccccaagtcg	caactggaac	agcgagacac	ctggggatga	ggagcttgga	420
tttgaagcag	cagttgctgc	cttgggcatg	aagacaacag	tgagcgaggc	agaacatccc	480
ctcttatgtg	aaggcacacg	tcgggagaag	ggtgacctgg	cattagcact	aatgatcact	540
tacaaggacg	accaggccaa	gcttaagaag	aaaattagcc	gggcatgggt	gcgcgcgcct	600
gtagtccag	ctactcggga	ggctgagggt	ggagaattgc	ttgagcccag	gagtttgagg	660
ctacagttag	ctataatcat	accactgcac	tccagcctgg	gcaacagagc	gagaccctgt	720
ctcttaaaaa	aaaaaaaaaa	agaaaaactcg	a			751

<210> 847  
 <211> 1823  
 <212> DNA  
 <213> Homo sapiens

<400> 847						
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tggtttggca	cccaggtacc	ctgcctcatc	cccggggcct	tggccagttc	acacagagga	180
actgccctcc	agctgagtta	cccattttcc	atggcagggg	ggacagcaga	aaggccgtgt	240
tccatgacta	atcatagctt	ccatctattg	agcatttact	gggagctggg	cactgtgcta	300
agtgtgaaac	gtgtgttgac	tcatttacta	caacaacctg	gcaaggcagt	tcttccgtta	360
gccccgtctc	aaagctaggg	gacctggagc	acaggcggtc	aagtgccttg	ctcaaggca	420
acagctcaaa	gtgcagatcc	tctgccccct	ctggcatccc	agtctggggg	ggtcaggggt	480
gggatctctg	cagtcagtgc	ctgggggctg	gatgacaagc	tgcagcctcc	ccgcaacccc	540
acgatttcca	tagcgcagtg	gagccagaaa	gaaacagacc	atTTTtacaga	ccagagaaac	600
aagggttgctg	ctctctcaga	cctggagacc	agtgcagagg	aaggcggaga	agggacgaga	660
gcctccgttt	attcggagcc	tgtgtatacc	ctccttttca	caaactgtag	cagcctccag	720
aggcaggggg	gatctttatg	atgaccaaatt	ggggaggctt	agggattgga	aatcacttgc	780
ccgggagcgt	gtggttggtg	ccactgggat	ttgagccttg	ttccgtccag	ctcagagct	840
tggtgccttt	cttgctcacc	acgtgccggc	cccagctcgt	tgcttgggca	gtggaggtgg	900
tggtgtgccg	aggccttcc	gcaccctggg	ttctctggcg	ctgagaaata	agtgcattgg	960
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agtggggctt	atggagccga	cgagacacca	tcagaccata	gagaggctgc	ccaggcttgg	1140
gagccatatg	gaccttgatt	tgaccttgaa	caggtcattt	cacctgagtg	tgtatagtg	1200
gaatgataac	atccggctca	cagaactgtg	gtgagaatta	gagatgggg	gtgtcgaaatg	1260
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gaaaagctcc	ctggaggagg	tgatgaagg	gtaccaagc	ctggaagagg	ctggcagtgg	1500
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ttgggattat	gggtgtccac	agagctgcag	tttctccaaa	gggtgttttt	gtttgttttt	1740
gagacaggg	cacactctgt	caccaggat	ggagtgcagt	ggcccgatcc	tagctcactg	1800
caaccttgaa	ctactaggct	cga				1823

<210> 848  
 <211> 1964  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (49)..(49)  
 <223> n equals a,t,g, or c

<400> 848						
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tcccccgkct	gyaggaattc	ggcacgagtc	ttgtgccagg	caactgggata	tggtgccgaa	180
ttggatacaa	gggagatggg	acgtcctcct	gtgtgtcttg	actgtcggtg	tgttgccgag	240
catttggtagc	agagggggct	ggtttggcac	ccaggtaccc	tgctcatcc	ccggggcctt	300
ggccagtcta	cacagaggaa	ctgcccctca	gctgagttac	ccattttcca	tggcagggag	360
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ggagctgggc	actgtgctaa	gtgtgaaacg	tgtgttgact	catttactac	aacaacctgg	480
caaggcagggt	tcttccgtta	gcccctgctc	aaagdaggg	gacctggagc	acaggcggtc	540
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cagtctgggg	gggtcagggg	tgggatctct	gcagtcagtg	cctgggggct	ggatgacaag	660
ctgcagcctc	cccgaacccc	cacgatttcc	atagcgcagt	ggagccagaa	agaaacagac	720
cattttacag	accagagaaa	caaggttgct	gctctctcag	accctggagc	cagtgcacag	780
gaaggcggak	aagggacgag	agycctcggt	tattcggagc	ctgtgtatac	cctccttttc	840
acaaactgta	gcagcctcca	gaggcagggg	ggatctttat	gatgaccaaa	tggggaggct	900
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gttccgtcca	gctccagagc	ttgggtgcct	tcttgctcac	cacgtgccgg	ccccagctcg	1020
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gctgagaaat	aagtgcattg	gcaaagtggc	tttgtttcca	ggtcagtgac	tgtgacccca	1140
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gtgctggggg	tgtgggcagg	gagtggggct	tatggagccg	acgagacacc	atcagaccat	1260
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agagatgggt	ggtgtcgaat	gatttagcacc	taatcagcat	tttacaataa	tgcaaattct	1440
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gatttttctt	caactgtgaga	tgctggttga	gacaatttcc	tccttggagt	ggcctgggtt	1740
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ggcactgcca	agcatgctgc	ttgggattat	gggtgtccac	agagctgcag	tttctccaaa	1860
gggtgttttt	gtttgttttt	gagacaggg	cacactctgt	caccaggat	ggagtgcagt	1920
ggcccgatcc	tagctcactg	caaccttgaa	ctactaggct	cgag		1964

<210> 849  
 <211> 769

<212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (483)..(483)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (667)..(667)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (697)..(697)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (708)..(708)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (723)..(723)  
 <223> n equals a,t,g, or c

<400> 849  
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 ggtcttgtgc caggcactgg gatatggtgc cgaattggat acaagggaga tgggacgtcc 120  
 tcctgtgtgt cttgactgtc ggtgtgttgc cgagcattgg tagcagaggg ggctggtttg 180  
 gcacccaggt accctgcctc atccccgggg ccttggccag tctacacaga ggaactgcc 240  
 tccagctgag ttacccattt tccatggcag ggaggacagc agaaaggccg tgttccatga 300  
 ctaatcatag cttccatcta ttgagcattt actgggarct gggcactgtg ctaagtgkga 360  
 aacgtgtgtt gactcattta ctacaacaac ctggcaaggc aggttcttcc gttagcccct 420  
 gctcaaaget aggggacctg gagcacaggc ggtcaagtgc ttggctcaag gcacacagct 480  
 canaagtgca gatecctctgc ccctcctggc atcccagctc ggggggggtca ggggtgggat 540  
 ctctgcagtc agtgcctggg ggctggatga caaagctgca rccttcccgc amccccacga 600  
 ttccatagc gcaatggagc cagaaagaaa cagaccattt tacagaccag agaaacaagg 660  
 gtgctgntct cttaaaccct ggagccagtg acagggnaaa gccggaanaa aggaccaaga 720  
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<210> 850  
 <211> 818  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (68)..(69)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (82)..(82)  
 <223> n equals a,t,g, or c

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<400> 850
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gaggctggca gtggtactcc agaaacttca tgggtggcctg caatttgtga tgcgatttt      540
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<210> 851
<211> 2052
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (2045)..(2045)
<223> n equals a,t,g, or c

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<400> 851
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<210> 852  
 <211> 891  
 <212> DNA  
 <213> Homo sapiens

<400> 852							
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<210> 853  
 <211> 501  
 <212> DNA  
 <213> Homo sapiens

<400> 853							
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<210> 854  
 <211> 1340  
 <212> DNA  
 <213> Homo sapiens

<400> 854							
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<210> 855  
 <211> 813  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (338)..(338)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (384)..(384)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (389)..(389)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (799)..(799)  
 <223> n equals a,t,g, or c

<400> 855						
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813

<210> 856

<211> 1237

<212> DNA

<213> Homo sapiens

<400> 856

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<210> 857

<211> 1681

<212> DNA

<213> Homo sapiens

<400> 857

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<210> 858  
 <211> 1934  
 <212> DNA  
 <213> Homo sapiens

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<210> 859  
 <211> 1958  
 <212> DNA  
 <213> Homo sapiens

<400> 859						
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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (19)..(19)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (544)..(544)  
 <223> n equals a,t,g, or c

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 <211> 1590  
 <212> DNA  
 <213> Homo sapiens

<400> 862	
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<210> 863  
 <211> 1540  
 <212> DNA  
 <213> Homo sapiens

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<210> 864  
 <211> 2467  
 <212> DNA  
 <213> Homo sapiens

<400> 864						
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<210> 865  
 <211> 2541  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (388)..(388)  
 <223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1434)..(1434)

<223> n equals a,t,g, or c

<400> 867

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<210> 868

<211> 1450

<212> DNA

<213> Homo sapiens

<400> 868

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aaaaaaaaaa						1450

<210> 869  
 <211> 1868  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> n equals a,t,g, or c

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 <212> DNA  
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<220>  
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 <223> n equals a,t,g, or c

<220>  
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<220>  
 <221> misc\_feature  
 <222> (1507)..(1507)  
 <223> n equals a,t,g, or c

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 ctccccatga tgacgcccac gggaacttcc agtacgacca tgaggctttc ctgggacggg 240  
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 aataaaagcc agcgccggga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1500  
 aaaaaan 1507

<210> 871  
 <211> 586  
 <212> DNA  
 <213> Homo sapiens

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<210> 872  
 <211> 1250  
 <212> DNA  
 <213> Homo sapiens

<400> 872						
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<210> 873  
 <211> 1792  
 <212> DNA  
 <213> Homo sapiens

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<210> 874

<211> 1673

<212> DNA

<213> Homo sapiens

<400> 874

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<210> 875

<211> 988

<212> DNA

<213> Homo sapiens

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<210> 876
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<212> DNA
<213> Homo sapiens

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tataaataag ccccatgttt attttcttat gttattgaaa tgagcacttg tgatttgggc      180
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ttcatttatg tttttaagtc tattgtctta aaaagattct tttcccttaa aaaataaaaa      1260
aacctgatgt gatgggttcc ttcagtcac aaatacttat tgagcagtta ttgtgtgcca      1320
gatactgttc ttggtgtgag gatatggcac tgaacaaaac aatgtaccta ctttcgtcaa      1380
gcttacattc tagtgaggaa gataaccaa acaagtgact gaatataatt tcaaatgtca      1440
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<210> 877
<211> 1083
<212> DNA
<213> Homo sapiens

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<220>  
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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

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 tgtgacagta acatctcaag gggaaactag tggttaaatt gttaattctt tgagtctgaa 420  
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<210> 878  
 <211> 1904  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
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 <223> n equals a,t,g, or c

<220>



<221> misc\_feature  
 <222> (88)..(88)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1902)..(1903)  
 <223> n equals a,t,g, or c

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 gccagtgaat tgtaatacga ctactatag ggcgaattgk ktaccgggcc cccctcgag 600  
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 ggcacaaatt tttactttac ttctcaactt caaaatttga tgattccatt attttgtca 1800  
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 gttcctatag gtaaagtaga ggagaattta gtaanngtan gnnt 1904

<210> 879  
 <211> 1937  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <222> (23)..(23)  
 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1884)..(1884)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1908)..(1908)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1916)..(1916)  
 <223> n equals a,t,g, or c

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<210> 880  
 <211> 971  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (957)..(957)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (964)..(964)  
 <223> n equals a,t,g, or c

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caaagggaat	ttgaaaaaga
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aatgtatacc	aacacgatga
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<210> 881  
 <211> 968  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (241)..(241)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (954)..(954)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (961)..(961)  
 <223> n equals a,t,g, or c

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<210> 882  
 <211> 2460  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (172)..(172)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2457)..(2457)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2459)..(2460)  
 <223> n equals a,t,g, or c

<400> 882  
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<210> 883

<211> 1163

<212> DNA

<213> Homo sapiens

<400> 883

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<210> 884  
 <211> 1183  
 <212> DNA  
 <213> Homo sapiens

<400> 884						
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<210> 885  
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1296)..(1296)  
 <223> n equals a,t,g, or c

<400> 885						
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<210> 886  
 <211> 768  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
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 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
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 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (726)..(726)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (743)..(743)  
 <223> n equals a,t,g, or c

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aacttaaata	ggtcattttt	gtctgtggca	tttttactgt	ttgtgaaagt	atgaaacaga	420
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<210> 887

<211> 1392

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (3)..(4)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (6)..(6)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (13)..(13)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (18)..(18)

<223> n equals a,t,g, or c

<400> 887

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<210> 888  
<211> 768  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (581)..(581)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (675)..(675)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (721)..(721)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
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<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
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<223> n equals a,t,g, or c

<400> 888  
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<210> 889  
<211> 2087  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (17)..(17)  
<223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (25)..(25)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (73)..(73)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (94)..(94)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1552)..(1552)  
 <223> n equals a,t,g, or c

<400> 889  
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 gaagaagtta accggaaagg aattaacatt tcaaggcctt gccgcttctt cytcctcttg 360  
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<210> 890  
 <211> 2096  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (2070)..(2070)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2083)..(2083)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2090)..(2090)  
 <223> n equals a,t,g, or c

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<210> 891  
 <211> 1707  
 <212> DNA  
 <213> Homo sapiens

<400> 891  
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 <212> DNA  
 <213> Homo sapiens

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 <211> 1333  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

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<210> 894

<211> 1797

<212> DNA

<213> Homo sapiens

<400> 894

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<210> 895

<211> 1140

<212> DNA

<213> Homo sapiens

<400> 895

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<210> 896

<211> 738

<212> DNA

<213> Homo sapiens

<220>

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<222> (646)..(646)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (670)..(670)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (696)..(696)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (707)..(707)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (718)..(718)

<223> n equals a,t,g, or c

<400> 896

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<210> 897  
 <211> 935  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
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 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (95)..(95)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (101)..(101)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (139)..(139)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (176)..(176)  
 <223> n equals a,t,g, or c

<400> 897	
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tgcttgacta	cctggatgcc
360	



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<210> 898

<211> 810

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (688)..(688)

<223> n equals a,t,g, or c

<400> 898

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<210> 899

<211> 1092

<212> DNA

<213> Homo sapiens

<400> 899

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aaaaaaaaaa	aa					1092

<210> 900  
 <211> 284  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> n equals a,t,g, or c

<400> 900	
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gcagcgtgtc	aggggggggg
gggggggggg	gggggggggg
atgtgctggt	gtggaaacgg
ggtcagagaa	aaagctatgc
	ggacactcca
	gcttggcctg
	ggtc
	60
	120
	180
	240
	284

<210> 901  
 <211> 1494  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (52)..(52)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (453)..(453)  
 <223> n equals a,t,g, or c

<400> 901	
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tttcagagtt	tttatagtt
ttttgtatgc	agagtaagct
atcccagcac	catttattaa
gtccaagatc	agatgattgt
tttatctgtg	tgtctgtttt
gtatggtttg	aggtttggtg
cttggtctagg	ctcttttttg
aatgtcattg	gtagtttgat
aattttatttc	tgctgtctag
cttcttatat	tgttttatat
gaagtaaaac	caaagacarg
ggcctaaacc	cagtagttaa
tccagacatt	gtatagaaga
caccggtgca	tgcagccctt
tcatgtgaaa	tctttagtg
gctcggtatt	taaggcagta
caaytygggtg	tctgagrggt
	atggtatttc
	tttaactcttc
	ctgcatatgg
	tgcttggttt
	ggactctctg
	ttgttactg
	ttctttatgt
	ggttccatag
	aattttaaa
	gctcaactca
	aattgagggg
	ttttaagaaa
	ccaggccra
	ataacttga
	actccctgcc
	gctgcttg
	tctctctgac
	tcaaatcaat
	agaaaattgtg
	gctcccagct
	gaataaagcc
	cttccttcta
	ctacatttct
	tggttctctga
	60
	120
	180
	240
	300
	360
	420
	480
	540
	600
	660
	720
	780
	840
	900
	960
	1020
	1080

ccaggaaacg	aggtaactga	tggaacagccg	aggcagcccc	ttaggcgggt	taggctcccc	1140
tggtggagcrt	cmctgrggcg	gastccggcc	aqccgagtg	acgcgatcca	aagagcactc	1200
ccgggtagga	aattgccccg	gtggaatgcc	tcaccagagc	agcgtgtagc	agttccctgt	1260
ggaggattaa	cacagtggct	gaacaccggg	aaggaactgg	cacttggagt	ccggacatct	1320
gaaacttgat	ctccagcacc	ctgccgggtg	actactgaga	gacgaggtgc	cagggtggtt	1380
cctgaaagtg	cctgagcccc	aacttatcag	caaggagctc	atcatgctga	cagaagtcac	1440
ggaggtctgg	catggcttag	tgatcgcggt	ggtgtcctct	tcctgcaggc	ctgc	1494

<210> 902

<211> 1014

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (12)..(12)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (16)..(16)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (19)..(19)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (78)..(78)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (83)..(83)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (124)..(124)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (929)..(929)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1000)..(1000)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1007)..(1007)

<223> n equals a,t,g, or c

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gggggaaaaa ggatttttnag ggncatagag tccacgggtt gggcccaaac agcagggttcc 120
aggnttccac cgccccagtg atttocaggc tctctggctg aaggctgcct gcctggagg 180
gacatcaggg aagaggcttc cggagagggg atgggagaaa gtaggggatg tggcttgagc 240
tgcagtcaca ggccttggtt ggaccaggga tggccccag ctcccaggag ggcccactga 300
ccctgcagct ccagccttct ccatacttca acaaagaatg agttgtggca atgagggaag 360
agagaccctc tcatagtgtt ttatactcag tacctgtttt aagaaaaaac aacaaggaa 420
taaaaccaa gacaggcagg cagcctggcg ctagggccga aaccaggcct gcgcctgyct 480
ggcctaaacc cagtagttga aaatcaattc aaacttaga aaccgatgtt attcatagat 540
tccagacatt gtatagaaga acatttgtga aactccctgc cgtgttctgt ttctctctga 600
ccgccggtgc atgcagcccc tgtcacgtac cgcctgcttg ctcaaataca tgacgacctt 660
ttcatgtgaa atcttyrgtg ttgtgagccc ttaaaagggg cagaaattgt gcacttgrgg 720
agctcrgatt ttaaggcwgt agcttgccga tgctcccagc tgaataaagc ccttccttct 780
acaactctga gaggttttgt ctgcggtctg tctgtctaca tttcttggtt ccctaaccag 840
gaaacgaggt gactgacgga cggctgagac agcccttagg caacttaggc ctgccccgtg 900
gagcgtccct gcgggggactc cggccaagt gagtgatgcc atccaaagag tgctcctggg 960
taagcattgc ccggttgga ggccttgcca gagcagcacn tagcagnccc tgcg 1014

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```

<210> 903
<211> 1038
<212> DNA
<213> Homo sapiens

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<400> 903
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gcgcgggacc aacgtcaccg ctgccgtcca ggatgccggc ctggcccacg aaggcgagg 180
cgaggaggag accgaaaaca acgacagcga gaccgcggag aactacgctc cgtctgaaac 240
cgaggatgtt tcaaatagga atstcgcac agaagtagaa ttcggaatgt gcaccgttac 300
atgtgggtatt ggtgttagag aagttatatt aacaaatgga tgccctgggtg gtgaatccaa 360
gtgtgttgta cgggtagaag aatgcccggt gaccaacaga ttgtggctgg ggtaaaccaa 420
tttcagaaag tcttgaaagt gttagattgg catgtattca cacatctccc ttaaattgtt 480
tcaaataatg gtggaacttc taagacaaga ccacaatcca ttatacttgt aaatgattca 540
gcaatcctag aagtacgcaa ggaaagtcac cccttggtt tgcagtgtga cacactggat 600
aataatgaaa tartagcaac tattaaattc acagtctata cgagcagtga attgcagatg 660
agaagatcaa gcctaccagc cactgatgcc agccctaatt tttgtgctga ccataggagt 720
cattatctgt gtatttataa ttttcttatt gatcttcata atcataaatt gggcagcagt 780
caaggctttc tggggggcaa aagcctctac acctgaggta caatccgagc agagtctctg 840
gagatacaaa gattcaactt ctcttgacca attaccaaca gaaatgcctg tgaagatga 900
tgctttaagt gaatggaatg aatgatgttt gaatgatata taacaaacca aaggatatta 960
cagaatatta gattcattat tacaaaaata aaatacacat tgaaatactt taacaaaaaa 1020
aaaaaaaaaa aaactcga 1038

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```

<210> 904
<211> 745
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (312)..(312)
<223> n equals a,t,g, or c

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<400> 904
gtacaggact gagaagcaga taacaagagt gacgctcaca gggctgggct gacgctaaca 60

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ggaggcagtg tgtggctcga agattcttga acccacagca gcagctgcg ccaccccatc 120
ctgcccacag ctccagccct gagacgacga ggaggagagt cgactttgcc tcttgcccaa 180
gggaccatgc ccagggtgcc gtggctctcc ctgatcctcc tcaccattcc cctggccctg 240
gtggccagga aagacccaaa aaagaatgag acgggggtgc tgaggaaatt aaaaccgctc 300
aatgccttca antgccaacg tggaaagcagt gtyygtggtt ttgccatgca agaatacaac 360
aaagagagcg aggacaagta tgtcttcctg gtggtcaaga cactgcaagc ccagcttcag 420
gtcacaaatc ttctggaata ccttattgat gtagaaattg cccgcagcga ttgcagaaag 480
cctttaagca ctaatgaaat cgcgccattc aagaraactc cagctgaaa aggaaattaa 540
gctgcagctt tttggttaga gcacttcctt ggaatggtga attcactgtg atggagaaaa 600
agtgtgaaga tgcttaatgg tgttttgagg catccctcca acctctgtga ctactttatc 660
catgaaaatg aagcaatggt cagggtgggag gctcttccca atgtgctttc ttcaaaaaaa 720
aaaaaaaaaa aaaaaaaaaa ctcga 745

```

```

<210> 905
<211> 1147
<212> DNA
<213> Homo sapiens

```

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<400> 905
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gactggacac tgggctgctt gagtccctgag tcacaattca gattcctgg gctccctggg 120
tgcattctat cattccagtt gaaagtattgc ttccttccag tcatgtggct cttcattcta 180
ctctccttgg ctctcatttc agatgccatg gtcattgatg aaaagggtcaa gagaagcttt 240
gtgctggaca cggcttctgc catctgcaac tacaatgccc actacaagaa tcaccccaaa 300
tactggtgcc gaggtatatt ccgtgactac tgcaacatca tgccttctc ccctaacagc 360
accaatcatg tggccctgaa ggacacaggg aaccagctca ttgtcactat gtccctgctg 420
aacaaagaag acacgggctg gtactggtgt ggcattccagc gggactttgc cagggatgac 480
atggatttta cagagctgat tgtaactgac gacaaaagaa cctggccaat gactttggtc 540
tgggaaagac tatcaggcac aaaaccagaa gctgcaaggc tcccaaagtt gtccgcaagg 600
ctgaccgctc caggacgtcc attctcatca tttgcatact gatcacgggt ttgggaatca 660
tctctgtaat cagtcatttg accaaaagga ggagaagtca aaggaataga agggtaggca 720
acactttgaa gcccttctcg cgtgtcctga ctccaaagga aatggctcct actgaacaga 780
tgtgactgaa gattttttta atttagttca taaagtgatg ctacaacaga ataataacca 840
tgacaactgg cccacacct cagagactga ttctgatctc ccaggaattc tgaagggtccc 900
tctatccttg acaacaatca tttgcagcca gtagcaacg gcagtagtca gaggagctat 960
gatagaccac acccaagcaa ggctgccctc aaataacatc tcaagatctt agttcttatg 1020
cattccatca gtcagaagtg aagaagaggt ggagaatctg gattggggac caggaaatca 1080
cttgtatattt gttagccaat aaattcctag ccagtgttga atgaaaaaaa aaaaaaaaaa 1140
aaaaaaa 1147

```

```

<210> 906
<211> 1134
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (418)..(418)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (803)..(803)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature

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<222> (816)..(816)  
 <223> n equals a,t,g, or c

<400> 906  
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 atcattccag ttgaaagttt gcttccttcc agtcatgtgg ctcttcattc tactctcctt 180  
 ggctctcatt tcagatgcca tggatcatgga tgaagagggtc aagagaagtt tgtgctggac 240  
 acggcttctg ccatctgcaa ctacaatgcc caytacaaga atcaccccaa atactggtgc 300  
 cgaggytatt tccgtgayta ctgcaacatc atcgcttctt cccctaacag caccaatcat 360  
 gtggccctga aggacacagg gaaccagctc attgtcacta tgtcctgcct gaacaaanaa 420  
 gacacgggct ggtactgggtg tggcatccar cgggactttg cmagggatga catggatttt 480  
 acagagctga ttgtaactga cgacaaagga accctggcca atgactttg gtctgggaaa 540  
 gacctatcag gcaacaaaac cagaagctgc aagggtccca aagttgtccg caagctgacc 600  
 gctccaggac gtccattctc atcatttgca tactgatcac gggtttggga atcatctctg 660  
 taatcagatca tttgaccaaa aggaggagaa gtcaaaggaa tagaagggtg ggcaacactt 720  
 tgaagccctt ctgcggtgtc ctgactccaa aggaaatggc tcctactgaa cagatgtgac 780  
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 agaccacacc caagcaaggc tgccctcaaa taacatctca agatcttagt tcttatgcat 1020  
 tccatcagtc agaagtgaag aagagggtga gaatctkgat tggggaccag gaaatcactt 1080  
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<210> 907  
 <211> 632  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (537)..(537)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (579)..(579)  
 <223> n equals a,t,g, or c

<400> 907  
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 gtggctcttg tatcacaagt tgaatttctc actttgagta gtagtgaagt cactactgta 120  
 agagctgggtc agtgaatgtg gttgcagcat ggcctttggg caagaagtaa cccatttaac 180  
 taaaaccagc tggttggccc cactcagatt tatcaaaggg ttactgggtc cctgggggtg 240  
 gatattgctt atattagact tagaatagca tactgtttta atattatatg aactaaaatg 300  
 tttctttaaa aaaagagtgg tctgttaatg gatttatgta gtggtcaaga atttagactt 360  
 cagagtcaaa taaacctata tcagtcttag tctacagtt tactaattgt gagatgkcaa 420  
 gcaagktttt gaactcctct aagcctctgk ttctttatct ataaattaat aaatgaatga 480  
 atcgggttga gtgaataatt aagtaaaatc ttaagacata ctagtatttg gaactgngaa 540  
 actgggtttt ttgggaatgg gtttcacatt tgggaagtng aaataccact ttctaaagggt 600  
 ctggtttatc tcaaatctct atccaggcct aa 632

<210> 908  
 <211> 2036  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (521)..(521)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (687)..(687)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1799)..(1799)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1807)..(1807)  
 <223> n equals a,t,g, or c

<400> 908  
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 tgggtgtactc tgaggcgcga ttgtgtgaaa ggtgggctaa ggtgcctgtt cgaccacatc 180  
 ctactcggta gactgggtca ccacagtttt ggaaagggtga gaaatggtat ctaaaccatag 240  
 tttgaatttg catttctttt actggaaggg aggctgcgcg tgtttcacat cagagccacg 300  
 tgtgttttgt gttgttgaac tttctctctt ggattgctag gagtgcctta tgtattaggg 360  
 aagcagactt ccctaattgcg tgataacgca tgcagatact gtttccaagt tttgtttatt 420  
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 ttgatgttta tgtggtcata ggtgtgaata ttttcttttg ggcttctgg attttgagac 540  
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 gctttgggtcc tgtcttcttg actttattta aaatagtaag atatwcttac tacatttttc 660  
 cattgcccac agctggaagg agattgnaat tatcaccaaa gatgaaaaac taaggcatgt 720  
 tctcagcaga ggcagattag actttaagtt agaggcttgt ccttggtgca gaggcctgtg 780  
 agcgaccggg cccacttgc cctgcacacc atggcggtga ttgtgggcag tcacagggaa 840  
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 ttctcttcca agtaattatt agatgtgcca agcctgttac gtttattact tacagaattg 1080  
 kttttgtctg tgtgagttta ctgaggactt aggggttggg atgtgaggag gggagcccc 1140  
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 cttgatcact taaaataaga tcttagatgt gatgtgtctt tgtggagtat ttctgtggc 1320  
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 acaatgcttc aggacagata atagagctgt gcgggcagcc tcsgtgacag tgttgggaat 1620  
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 gtctcacgcc aggaatccca gcatgttggg aggctgaggt tgggggatcg gattgcttga 1740  
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 aaaaaanaaa actcgagggg gggcccgga cccaattcgc cctatagtga gtcgtattac 1860  
 aattcacttg ccgkcgtttt acaacgmctg gactggcaaa accctggcgt taccacaact 1920  
 aatcgcttg cagcacatcc cccttctgcc agctggcgta atagcgaaga ggcccgacc 1980  
 gatcgccctt cccaacagtt gcgcagcctg aatggcgaat ggcaaattgt aaagcg 2036

<210> 909

<211> 2694  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (258)..(258)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (925)..(925)  
 <223> n equals a,t,g, or c

<400> 909  
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 agcaccggcc tgggtccgcc ggctgcgctg gggctggtgt cttcccgaccagcggtgca 180  
 gtcccgccaa aggaagagga gctccgggcg gcggtggagg ttctgarggg ccacgggcta 240  
 cactcgggtcc tggargantg gttcstggag ktgctgcaga acgatctgca rgccaacatc 300  
 tyccctgart tctggaatgc catctcccaa tgcgagaact ctgcggatga gccccagtgc 360  
 cttttgctac tccttgacgc ttttggcctg ctggagagcc gcctggatcc ctacctgct 420  
 acctagagct gctggagaaa tggactcgcc tgggcttgct gatgggact ggtgctcagg 480  
 ggctgcgaga agaagtccac actatgttgc gcggagtctt gttcttttagc acccccagaa 540  
 ccttccaaga gatgatccag cgtctgtatg ggtgcttctt gaggtctat atgcagagta 600  
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 ccgctcgccg gtactaccgg ctctgcaga gcccgctgtg tgcagggtgc agcagtgaca 720  
 agcaacagtg ctggtgtcgc caggctctgg agcagttcca tcagctcagc caggctcttac 780  
 acaggctac tctgtggag cgggtcagtg ccgaggtgtg gaccaccacc ctgcaccagg 840  
 tgaccggga gaggatggag gaccgttggc ggggcgagta cgagcgctcc ttcctgctg 900  
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 gcccgcgcag gccgcactc cccgaggccg gcaacaccg gcgccgctgg cgctgcacgt 1020  
 gcaaaggttc ttctaccgca tctacgccag cctgcgcac gagagctct tcagcatcgt 1080  
 ccgagacttc ccagactccc ggccagccat cgaggacctc aagtactgcc tggagaggac 1140  
 ggacyagagg cagcagctgc tcgtgtccct caaggctgcc ctggagactc ggctcctgca 1200  
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 cgtgctggac ccttccatgg tcatcctgga ggtggcctgt gacgctatcc gccgctacct 1320  
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 ggacagttag gatgactcag gcgagccaga ggactgggtc ccggaccctg tggatgccga 1500  
 tccagggaag tcgagctcca agcggcggtt atcggacatc atcagcctgc tggtcagcat 1560  
 ctacggcagc aaggacctct tcatcaatga gtaccgctcg ctgctggccg accgctgct 1620  
 gcaccagttc agcttcagcc ccgagcggga gatccgcaac gtggagctgc tgaagctgcg 1680  
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 ccgcatcaat gcccaatccc gggaggagga tgagaagcgg ccagcagagg agcagccacc 1800  
 gttcggggtc tacgctgtca tcctgtcag tgagttctgg ccgcccttca aggacgagaa 1860  
 gctggaggtc cccgaggata tcagggcagc cctggaggct tactgcaaga agtatgagca 1920  
 gctcaaggcc atgcggaccc tcagttggaa gcacaccctg ggcctggtga ccatggacgt 1980  
 ggagctggcc gaccgcacgc tgtctgtggc ggtcacccca gtacaggcgg tgatcttgc 2040  
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 cgtggcgctg ctgcggcgcc ggatgtccgt gtggctgcag cagggtgtgc tgcgtgagga 2160  
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 cgagattgac ctgcaggagc tgcagggcta cctgcagaag aaggtgcggg acgagcagct 2460  
 cgtctactcg gccggcgtct accgcctgcc caagaactgc agctgacaca tcgcccggcc 2520



gcccgcgccgc	ccgccaggcg	ctgccctgca	ggtgctctcg	tcctcccggtg	ccagcccccg	2580
ccgcgccgtg	tcccagaatg	cactgctgag	gagcatgccc	acccccaccc	ccgcagtggtg	2640
cagattaaag	caagtcagat	catcaaaaaa	aaaaaaaaaa	aaaagggcgg	ccgc	2694

<210> 910  
 <211> 810  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (731)..(731)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (733)..(733)  
 <223> n equals a,t,g, or c

<400> 910						
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tgcaggggaa	ggtcttacgc	atgcccacgc	acttctcctt	gtcgtatgcar	aggggtgttg	180
ccttgatggc	gagctcgtgc	tccagccggc	acttggtcat	gaccagcagc	tgcagcgtgt	240
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cgttcaccag	cttcaactgc	gggatgtccc	tgcacagctc	catgttgggg	cgccgggtcc	360
ggcactccag	ccttgtctgg	gccaccktca	gcggggccctc	ctggccatg	atggaccttt	420
ccagcagcat	gatggtgttc	tcggcctgga	agatctcctg	cagcgtcttc	gccagctgcg	480
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tgtctgtgaa	ctgcctccac	atctgatccg	acaagggtctc	aaagaggtgc	tccgcctcct	600
ccgcagctg	gatggagttg	gcccgcacgt	tctgagagtg	tttgatgttg	tcgttactga	660
acttggccca	ggtctcaggt	acggagatcg	tgccgtcggt	ttctccatgc	cgtggaagaa	720
gctaatagcc	ncngaccgga	tttctcaggt	ttaaagcactt	ctcatcgata	cactggggggg	780
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<210> 911  
 <211> 2298  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (4)..(4)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1653)..(1653)  
 <223> n equals a,t,g, or c

<400> 911						
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acatttttgc	gatactcttc	tggtttggaa	ggcgctttga	gtccccgctg	ctgtggcaga	180
gcgccatcat	gatcctgacc	atgctgctga	tgtgaagct	gtgcaccgag	gtccgtgtgg	240
ccaacgagct	caacgccagg	cgccgctcct	ttacagactt	cgacccccac	cacttctggc	300
agtggagcag	cttctcggac	tacgtgcagt	gcgtcctggc	cttcacgggc	gtggcgggct	360

acatcaccta	cctgtccatt	gactccgccc	tgtttgtgga	gaccctgggc	ttcctggctg	420
tgtgaccga	agccatgctg	ggtgtgcccc	agctttaccg	caaccaccgc	caccagtcca	480
cggagggcat	gagcatcaag	atggtgctca	tgtggaccag	tggtgacgcc	ttcaagacgg	540
cctacttctt	gctgaagggg	gccccctctg	agtcttccgt	gtgcggcctg	ctgcagggtg	600
tggtggacct	ggccatcctg	gggcaggcct	acgccttcgc	ccgccacccc	cagaagccgg	660
cgccccacgc	cgtgcacccc	actggcacca	aggccctctg	acagtgggga	ggacgaggat	720
gtgggacccg	cagccgcggg	cactgggtgg	ccctgacctc	cccgcgggga	gggtgggtgc	780
cgtggcccc	gcagggtgtg	cagagatggg	gcaygggcat	tggggtctcc	atcagcott	840
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gttggggctt	tctctgctg	gtacacacgg	aaaggcggct	gtgcggacgc	aggtcacccg	1260
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gcattctgag	tctgtgccgg	ggccgtggcc	atgggaagat	gttccacgct	gcctcctcct	2040
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ctgtgagatg	ctttgaaaat	ttttattttt	ttaagatgaa	gcaagatgtc	tgtagcggta	2160
attgcctcac	attaaactgt	cgccgactgc	aggcgcagtg	actgtgaat	gtaccctgtg	2220
tggcgacttg	gaatcaataa	accatttgtg	gatcctgaaa	aaaaaaaaaa	aaaaaaaaaa	2280
aaaaaaaaag	ggggggggc					2298

<210> 912

<211> 928

<212> DNA

<213> Homo sapiens

<400> 912

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catgctgctg	atgctgaagc	tgtgcaccga	ggtccgtgtg	gccaacgagc	tcaacgccag	180
gcgccgctcc	tttacagact	tcgaccccca	ccacttctgg	cagtggagca	gcttctcgga	240
ctacgtgcag	tgcttccctg	ccttcacggg	cgtggcgggc	tacatcacct	acctgtccat	300
tgactccgcc	ctgtttgtgg	agaccctggg	cttctgtggt	gtgctgaccg	aagccatgct	360
gggtgtgccc	cagctttacc	gcaaccaccg	ccaccagtcc	acggagggca	tgagcatcaa	420
gatggtgctc	atgtggacca	gtggtgacgc	cttcaagacg	gcctacttcc	tgctgaaggg	480
tgccccctctg	cagttctccg	tgtgcggcct	gctgcagg	ctgggtggacc	tggtccatcct	540
ggggcaggcc	tacgccttcg	cccgccaccc	ccagaagccg	gcgccccacg	ccgtgcaccc	600
cactgggcacc	aaggccctct	gacagtgggg	aggacgagga	tgtgggaccg	ccagccgcgg	660
gcactggtgg	gccctgacct	ccccgcgggg	agggtgggtg	cggtggcccc	tgcagggtgtg	720
gcagagatgg	ggcacgggca	ttgggtctct	catcagcctc	tgtgggtgtg	ctcagggtgtg	780
gcagtggggg	tggggctggg	acgctgtttg	tgctcagcgg	ggacagccag	ggttgatctg	840
gccccgaggg	ttttggatgt	ttttaggatg	acataaaaaa	caagtgtttt	ccccaaaaaa	900
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa				928

<210> 913  
 <211> 1433  
 <212> DNA  
 <213> Homo sapiens

```
<400> 913
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aggagtggga actcagtcct ggtggaaaag gaagtcgtgg agggagggct agggccgtgg      120
gggaactgct ctgctgagcc tcttcctcac ctgctgcttc ctaggactaa cctgaaggct      180
aaggtaccag gctgaagtca gtgctcagaa aaccaatcgt cattctttgg ggtttttttt      240
cttgaagagc cactttctct ttaccttggt ctagcctggt ggaggtaggg tttctgcaat      300
tccaaaggcc gtacacagcc tctcaccatc agaccacttt ttaaggctct tcgttcatac      360
ctagctcgaa gattcacttc ctcaggaagc catttttagt acaaatctgg gaaaacttaa      420
aatgctttca ttgtgccatg ttttctgttg cagcttcagt accgtacctg gtggtcaggc      480
atacttaaca gtttcttttt acagtaacct cttgtggaca tctaataaat ggtcattatt      540
ttttagtact agtttgtttt cctgaacct gtaagatctg tgactgacgt ttgatacctt      600
aaagcagtg ccatataata ctaccacta tttgttcttt atttctgtca gataaaaatg      660
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ttctattagt tgatttgcac gaaacacaaa attaggaaaa ggcttattcc acctcaacct      780
agttgaacta ttaatgattt tttttttttt ttgaggattt gggctctttc tagatagaaa      840
atcacctga acttctagct ttgcattgtg aagtgaagc catgaagatg agaaaatggt      900
gggagatcat ttttgcaaa ggcataatag tcggcattca gatatgagtt aactgagag      960
ggaaaattgc aagctgtcat gttggccttg ttcctctcaa ccttctggta acctaacaag     1020
ctcctacagg ttgtatgtga aattgcaaga tgattatata gcctgttgga atttacaacc     1080
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acttaaggga gaaggtatca gcagcctagg accacttggg ttctgttttt atgtttcata     1260
gttcatggct gataaaaatt acctgtcctt aggccgagtg cagtgcctca cacctgtaat     1320
cccagcactt tgggaggccg aggtgagtag atcacctgag atcaggagttcgagaccagc     1380
ctggacaaca agagcaaaac tccatctcca aaaaaaaaaa aaaaaaaact cga              1433
```

<210> 914  
 <211> 408  
 <212> DNA  
 <213> Homo sapiens

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<220>
<221> misc_feature
<222> (350)..(350)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc_feature
<222> (376)..(376)
<223> n equals a,t,g, or c
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<220>
<221> misc_feature
<222> (386)..(386)
<223> n equals a,t,g, or c
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<220>
<221> misc_feature
<222> (404)..(404)
<223> n equals a,t,g, or c
```

<400> 914

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caggatctgc	ctcgggtctgt	cagacattcc	taaggaaaat	tgtataataa	ctatttcggg	120
aatgcagtta	tctcatcatg	gtcagtcctt	ggggaagtgg	gctgagaaaat	tacatgtgtt	180
ctattctcta	ttttcattcc	tattgtgacc	ttcacaccga	ctcaaaacct	tccttttaga	240
tacttctgga	tataaaaata	tatgttaatt	ttgggggttc	acactcctga	gtgaaaggca	300
gtgtcatcaa	gtacgtgaat	gcccagctcc	taaatgtctt	tctcgttctn	ctcccaccca	360
gtcacgtcct	ccaagnagtg	aacttncttt	aattcacaat	ccgnttac		408

<210> 915  
 <211> 1299  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1291)..(1291)  
 <223> n equals a,t,g, or c

<400> 915	
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gtggcggtga	cgggcgccga
gacttgca	gataatagag
tgaggaggaa	gaggaaggcc
gattgttggc	cctcccagga
tgccaaagag	catggagctg
taaaccgaga	ccatttgcag
tgcctatgtg	gcaggagaaa
actctggaag	agtggattca
caatgcccag	tttctggagt
agctcacggt	ggacagggtga
gccccaaagga	gccttcaaag
ccaggtgttg	agtaccagct
ttccatctta	atcgacgaat
cgaggaggctg	gtgcagaaat
cgtggatgcc	cgccagcca
caaagagctg	gctgatgaga
cgtgcagcgg	ttaacataac
gccagtggcc	atgcccctat
cagtgcacacg	tctcctcat
ccttagttgc	atttctctggg
aaaacaacca	aaggggggcc
	cggtcccaat
	nccccctt

<210> 916  
 <211> 1669  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (4)..(4)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (54)..(54)  
 <223> n equals a,t,g, or c

```

<220>
<221> misc_feature
<222> (1424)..(1424)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (1663)..(1663)
<223> n equals a,t,g, or c

```

```

<400> 916
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ctgggtactgw tgtccttgct ggggcctgtg gctttgcac tcattccctg gtgaatgtca      180
ggaaatagag ggctgagact aatttttata ggctctcaat ttttcttgcw tggggacaag      240
ctgttgactt agctctgaat aggagtaata aggaggcagt gggccaggct gcatgacaac      300
tgggttttcag gccatataaa aaaagtacta actttattat ctcaagccat gcctggccta      360
ttgcaaagcc cagtgtgggt gtcttggggc ttgtatttga gattggagct tctctgacct      420
ccagtaccct ttcctcaggg gccacagtgt gtgtcacatg aatggcaagg tgaggtgagg      480
cttgggggag ctctctggtg tgtgtcacac caccttacct gtgtgcatta ctctgtgctt      540
gttcttttgc atacatctgc tgatttgaac ctacggctc tgacttaaga gcagtaggta      600
gggcatgtgg tccttccttc ccgtttcaaa gacaaggaaa gtgagtcaca gagtagtgca      660
ctggcctacc caggacatac agtggcagag ccaagactgg agcctagctg cttgtactaa      720
ccatgccagt gccaccatta accccaagtc actagtggta gctacttctg actatgactg      780
tagtcactgt ctcttgagga ggagcctggc caccagattg atagtcccag ctgagactct      840
ctcctgaact gataagctgt tttgcatgct tggaaatgct ttcccagtt tgttcacctg      900
ataaactcat ccttatcctc aagattcagc ccagaagaca cccttaaagg aagccttggc      960
tgtccttccc acccagtgtt cctctadga cttctgttgc tgctcacact gcattttacc     1020
tgcttgctc cttccatgtg ttcccagcta gccagtaaat tctttaaaga caagcattgt     1080
accctttgcc tcagtgtgcc cagcaccaac ctggcacatg ctctattcat gttttccatg     1140
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gtggacagca gattgttggc ccwcccagga agaaaagtcc caacgagctg gtggatgatc     1260
tctttaaagg tgccaaagag catggagctg tagctgtgga gcgagtgaac aagagctggc     1320
tgatgagagc cagaccctga aggaagccaa cctgctcaat gctgtcatcg tgcagcggtt     1380
aacataaccg cccagccagc tgccctggcct ccctcctgtg tttncccatg gccagtggcc     1440
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tctcctccat agctctgggt tcttagatct tggttgacg tttgttttct ccttagttgc     1560
atttcctggg tttttgtgat gatcaatgga ctttaatgaa aaaaaaaaaa aamaaccaa     1620
aaaaattgaa aaaaaaaaaa aaaaaaaaaa aaaaaagggg ggncccttt      1669

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```

<210> 917
<211> 1369
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1351)..(1351)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (1353)..(1354)
<223> n equals a,t,g, or c

```

```

<400> 917
gggcgaaggc gatgacaaag aagagtctgt tgaaaaactg gactgtcatt attcaggtca      60

```

tcacccctcag	ccagcatcctt	tttgacacatt	tgggagccgg	cagataggaa	gaggctatta	120
cgtgttttgac	tccaggtgga	atcgacttcg	ctgcgccctc	aectcatgg	tggagaagca	180
tctgaatgca	cagctatggr	agaaaatccc	accagtgccc	agtaccacct	cacctatctc	240
cacacgtatt	cctcaccgga	caaaactctgt	gccgacatca	caatgtggag	tcagctatct	300
ggcagcagcc	accgtctcta	catccccagt	cctgtctctca	tctacctgca	tctcccaaaa	360
tagcaaatcg	gtaccagctc	atggaaccac	actaaatgca	cagcctgctg	cttcaggggc	420
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tgccagtagc	agtaccagtg	gcggctcagg	aaagaaaacgc	aaaaacagtt	ccccactggt	660
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caggggcaca	aggactgatg	aacagttccc	tccttcatca	ggtaggaaat	ggactgtgag	1200
ccccatggga	atgcccattt	cttctccctt	aagatctttt	gtcagctcag	aaatgtgttt	1260
ggttgggttg	gttgggtggg	ttgtaaacag	atattcagct	tcatgggtgc	ttcttaaaaa	1320
aaaaaaaaaa	aaaaaaaaam	cycgggggtc	ntnnaaaggg	gcccggggg		1369

<210> 918

<211> 1515

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (69)..(69)

<223> n equals a,t,g, or c

<400> 918

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caacacgtnt	cccacaaagg	gagcagacac	tgggcttgtg	aagctgcccc	ataccttccc	120
cacagaactg	gggtccggcc	tccttgacat	gcagatttcc	accagaaga	cagagaagga	180
gccagtggtc	atggaatggg	ctggggtcaa	agactgggtg	cctgggagct	gaggcagcca	240
ccgtttcagc	ctggccagcc	ctctggaccc	cgaggttgga	ccctactgtg	acacacctac	300
catgcggaca	ctcttcaacc	tccttggct	tgccttgcc	tgcagccctg	ttcacactac	360
cctgtcaaaag	tcagatgcca	aaaaagccgc	ctcaaagacg	ctgctggaga	agagtcagtt	420
ttcagataag	cgggtgcaag	accggggttt	ggtggtgacg	gacctcaaag	ctgagagtgt	480
ggttcttgag	catgcgagct	actgctcggc	aaaggcccgg	gacagacact	ttgctggga	540
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gagcaagttc	acacagatct	caccctctct	gctgcagctg	aagagacgtg	gccgtgagat	660
gttttgaggtc	acgggcctcc	acgacgtgga	ccaagggtgg	atgcgagctg	tcaggaagca	720
tgccaagggc	ctgcacatag	tgccctcggct	cctgtttgag	gactggactt	acgatgattt	780
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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> n equals a,t,g, or c

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 <211> 2008  
 <212> DNA  
 <213> Homo sapiens

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 <211> 675  
 <212> DNA  
 <213> Homo sapiens

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 <211> 1162  
 <212> DNA  
 <213> Homo sapiens

<400> 922						
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 <212> DNA  
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<220>  
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<210> 924  
 <211> 1265  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
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 <223> n equals a,t,g, or c

<400> 924						
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 <211> 1012  
 <212> DNA  
 <213> Homo sapiens

<400> 925						
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 <211> 539  
 <212> DNA  
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>  
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 <212> DNA  
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<400> 927  
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<210> 928  
 <211> 667  
 <212> DNA  
 <213> Homo sapiens

<400> 928  
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 <211> 2025  
 <212> DNA

<213> Homo sapiens

<400> 929

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<212> DNA

<213> Homo sapiens

<400> 930

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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

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<210> 939
<211> 1012
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (19)..(19)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (956)..(956)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (970)..(970)
<223> n equals a,t,g, or c

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<220>
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<223> n equals a,t,g, or c

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<220>
<221> misc_feature
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<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (999)..(999)
<223> n equals a,t,g, or c

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<210> 940  
 <211> 734  
 <212> DNA  
 <213> Homo sapiens

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<210> 941  
 <211> 796  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (4)..(4)  
 <223> n equals a,t,g, or c

<400> 941						
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<210> 942  
 <211> 1037  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (12)..(12)  
 <223> n equals a,t,g, or c ,

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<210> 943  
 <211> 1410  
 <212> DNA  
 <213> Homo sapiens

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<400> 943
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<210> 944  
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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (417)..(417)  
 <223> n equals a,t,g, or c

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<210> 945  
 <211> 2136  
 <212> DNA  
 <213> Homo sapiens

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<210> 946

<211> 1203

<212> DNA

<213> Homo sapiens

<400> 946

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<210> 947  
 <211> 1144  
 <212> DNA  
 <213> Homo sapiens

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 <222> (3)..(3)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (10)..(10)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (24)..(24)  
 <223> n equals a,t,g, or c

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 ggaa 1144

<210> 948  
 <211> 1120  
 <212> DNA  
 <213> Homo sapiens

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 cgagttttcc tttgtcctgg ggagccgggc gcgaagagcg ggcgtcatct ctcgggaggt 300  
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<210> 949  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

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<400> 949
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Leu His Leu Ile Gln Leu Val Gly Cys Gly Leu Leu Thr Glu Glu Ile
      20              25              30

Lys Glu Ser Lys Tyr Leu Ile Lys Thr Leu Gly Ser Gly
      35              40              45

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<210> 950  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

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<400> 950
Met Pro Ser Ile Arg Leu Gly Leu Ser His Leu Phe Leu Thr Ala Gly
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Ile Tyr Cys Leu Leu Cys Ala Arg Cys Cys Ala Leu Gly Arg Gly
      20              25              30

Thr Ala Trp Ala Ala Cys Pro Gly Gly Ala Cys Gly Leu Met Gly Glu
      35              40              45

Ala Asp Pro Ser Pro Pro His Cys Gln Gln Gly Gln Gly Lys Ser Thr
      50              55              60

His Arg Gly Leu Ile Pro Tyr Val
      65              70

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<210> 951  
 <211> 100  
 <212> PRT

<213> Homo sapiens

<400> 951

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Met Thr Lys Ala Arg Leu Phe Arg Leu Trp Leu Val Leu Gly Ser Val
 1          5          10          15

Phe Met Ile Leu Leu Ile Ile Val Tyr Trp Asp Ser Ala Gly Ala Ala
      20          25          30

His Phe Tyr Leu His Thr Ser Phe Ser Arg Pro His Thr Gly Pro Pro
      35          40          45

Leu Pro Thr Pro Gly Pro Asp Arg Asp Arg Glu Leu Thr Ala Asp Ser
      50          55          60

Asp Val Asp Glu Phe Leu Asp Lys Phe Leu Ser Ala Gly Val Lys Gln
      65          70          75          80

Ser Asp Leu Pro Arg Lys Glu Thr Glu Gln Pro Pro Ala Pro Gly Ser
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Met Glu Glu Thr
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<210> 952

<211> 131

<212> PRT

<213> Homo sapiens

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<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE  
 <222> (94)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (102)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 952  
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 His Val Cys Phe Cys Pro Arg Leu Cys Leu Ala Val Pro Cys Val Phe  
 20 25 30  
 His Leu Ser Ser Pro Trp Phe His Val Arg Xaa Xaa Phe Phe Ser Gly  
 35 40 45  
 Xaa Pro Gly Cys Ile Trp Gly Ile Cys Phe Val Gly Leu Leu Leu Gly  
 50 55 60  
 Ala Xaa Arg Pro Arg Ser Gly Cys Leu Cys Ser Pro Ser Xaa Cys Leu  
 65 70 75 80  
 Trp Ser Leu Val Val Cys Glu Ser Ile Cys Leu Pro Arg Xaa Gly Pro  
 85 90 95  
 Asn Gln Ala Pro Pro Xaa Pro Leu Phe Leu Ser Leu Asn Leu Pro Phe  
 100 105 110  
 Leu Phe Gln Pro Leu Gln Met Arg Trp Leu Ser Ala Val Gly Trp Arg  
 115 120 125  
 Glu Ala Met  
 130

<210> 953  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<400> 953  
 Met Val Ala Val Thr Gly Gly Val Gly Val Ala Ala Ala Leu Cys Leu  
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 Cys Ser Leu Leu Leu Trp Pro Thr Arg Leu Arg Arg Ser Arg Gly Gly  
 20 25 30  
 Glu His Arg Thr Pro Ser Glu Gly Glu Gly Ile Ser Thr Ala Pro Pro  
 35 40 45  
 Pro Cys Trp Asn Glu Thr Gln Pro Gln Gly Gly Ala Lys Leu  
 50 55 60

<210> 954  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 954  
 Met Arg Leu Cys Ser Phe Thr Lys Val Pro Met Asn Leu Phe Leu Asn  
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 Val Ile Leu Leu Lys Phe Tyr Asn Phe Leu Phe Ser Leu Ile Leu Gly  
 20 25 30  
 Lys Ser Cys Leu Ala Ser Leu Gly Leu Cys Lys Asn Asn Lys Cys Leu  
 35 40 45  
 Ser

<210> 955  
 <211> 218  
 <212> PRT  
 <213> Homo sapiens

<400> 955  
 Met Gly Ser Ala Ala Leu Glu Ile Leu Gly Leu Val Leu Cys Leu Val  
 1 5 10 15  
 Gly Trp Gly Gly Leu Ile Leu Ala Cys Gly Leu Pro Met Trp En Val  
 20 25 30  
 Thr Ala Phe Leu Asp His Asn Ile Val Thr Ala Gln Thr Thr Trp Lys  
 35 40 45  
 Gly Leu Trp Met Ser Cys Val Val Gln Ser Thr Gly His Met Gln Cys  
 50 55 60  
 Lys Val Tyr Asp Ser Val Leu Ala Leu Ser Thr Glu Val Gln Ala Ala  
 65 70 75 80  
 Arg Ala Leu Thr Val Ser Ala Val Leu Leu Ala Phe Val Ala Leu Phe  
 85 90 95  
 Val Thr Leu Ala Gly Ala Gln Cys Thr Thr Cys Val Ala Pro Gly Pro  
 100 105 110  
 Ala Lys Ala Arg Val Ala Leu Thr Gly Gly Val Leu Tyr Leu Phe Cys  
 115 120 125  
 Gly Leu Leu Ala Leu Val Pro Leu Cys Trp Phe Ala Asn Ile Val Val  
 130 135 140  
 Arg Glu Phe Tyr Asp Pro Ser Val Pro Val Ser Gln Lys Tyr Glu Leu  
 145 150 155 160

Gly Ala Ala Leu Tyr Ile Gly Trp Ala Ala Thr Ala Leu Leu Met Val  
165 170 175

Gly Gly Cys Leu Leu Cys Cys Gly Ala Trp Val Cys Thr Gly Arg Pro  
180 185 190

Asp Leu Ser Phe Pro Val Lys Tyr Ser Ala Pro Arg Arg Pro Thr Ala  
195 200 205

Thr Gly Asp Tyr Asp Lys Lys Asn Tyr Val  
210 215

<210> 956  
<211> 44  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 956  
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1 5 10 15

Ile Ile Ala Ile Lys Cys Lys Lys Gln His Leu Arg His Ser Lys Cys  
20 25 30

Asn Xaa Asp Thr Thr Phe Lys Asn Lys Met Leu Asn  
35 40

<210> 957  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 957  
Met Ala Leu Ser Val Leu Val Leu Leu Leu Leu Ala Val Leu Tyr Glu  
1 5 10 15

Gly Ile Lys Val Gly Lys Ala Ser Cys Ser Thr Arg Tyr Trp  
20 25 30

<210> 958  
<211> 44  
<212> PRT  
<213> Homo sapiens

<400> 958

Met Gln Cys Asp Thr Phe Ser Lys Ala Thr Cys Cys Lys Ile Leu Leu  
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 Leu Ser Cys Cys Val Leu Tyr Leu Val Phe Ser ArgLeu Arg Gly Leu  
 20 25 30  
 Asp Gln Arg Ser Lys Arg Tyr Ser Leu Pro Asp His  
 35 40

<210> 959  
 <211> 91  
 <212> PRT  
 <213> Homo sapiens

<400> 959  
 Met Val Leu Arg Gly Trp Gly Leu Ala Trp Ser Leu Ser Pro Val Val  
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 Cys Gly Tyr Ser Gly Asp Met Lys Gly Val Cys Trp Gly Arg Ser Asp  
 20 25 30  
 His Ser Leu Leu Pro Ser Glu Ile Leu Leu Pro Pro Ala Pro Cys Pro  
 35 40 45  
 Ser Ser Ala Val Leu His Asn Pro Pro Pro Thr Pro His Leu Pro Ser  
 50 55 60  
 Pro Val Leu Val Arg Ile Gln Glu Ala Pro Thr Trp Aa Gln Arg Ser  
 65 70 75 80  
 Ser Leu Gly Ala Ser Pro Leu His Lys Gly Asp  
 85 90

<210> 960  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 960  
 Gly Arg Lys Gly Gly Leu Ser Gly Thr Ser Phe Phe Thr Trp Phe Met  
 1 5 10 15  
 Val Ile Ala Leu Leu Gly Val Trp Thr Ser Val Pro Val Val Trp Phe  
 20 25 30  
 Asp Leu Val Val Asp Glu Gln Ile Thr Ser Gln Ser Lys Gly Leu Pro  
 35 40 45  
 Leu

<210> 961  
 <211> 300  
 <212> PRT  
 <213> Homo sapiens

<400> 961  
 Met Lys Phe Leu Leu Asp Ile Leu Leu Leu Leu Pro Leu Leu Ile Val  
 1 5 10 15  
 Cys Ser Leu Glu Ser Phe Val Lys Leu Phe Ile Pro Lys Arg Arg Lys  
 20 25 30  
 Ser Val Thr Gly Glu Ile Val Leu Ile Thr Gly Ala Gly His Gly Ile  
 35 40 45  
 Gly Arg Leu Thr Ala Tyr Glu Phe Ala Lys Leu Lys Ser Lys Leu Val  
 50 55 60  
 Leu Trp Asp Ile Asn Lys His Gly Leu Glu Glu Thr Ala Ala Lys Cys  
 65 70 75 80  
 Lys Gly Leu Gly Ala Lys Val His Thr Phe Val Val Asp Cys Ser Asn  
 85 90 95  
 Arg Glu Asp Ile Tyr Ser Ser Ala Lys Lys Val Lys Ala Glu Ile Gly  
 100 105 110  
 Asp Val Ser Ile Leu Val Asn Asn Ala Gly Val Val Tyr Thr Ser Asp  
 115 120 125  
 Leu Phe Ala Thr Gln Asp Pro Gln Ile Glu Lys Thr Phe Glu Val Asn  
 130 135 140  
 Val Leu Ala His Phe Trp Thr Thr Lys Ala Phe Leu Pro Ala Met Thr  
 145 150 155 160  
 Lys Asn Asn His Gly His Ile Val Thr Val Ala Ser Ala Ala Gly His  
 165 170 175  
 Val Ser Val Pro Phe Leu Leu Ala Tyr Cys Ser Ser Lys Phe Ala Ala  
 180 185 190  
 Val Gly Phe His Lys Thr Leu Thr Asp Glu Leu Ala Ala Leu Gln Ile  
 195 200 205  
 Thr Gly Val Lys Thr Thr Cys Leu Cys Pro Asn Phe Val Asn Thr Gly  
 210 215 220  
 Phe Ile Lys Asn Pro Ser Thr Ser Leu Gly Pro Thr Leu Glu Pro Glu  
 225 230 235 240  
 Glu Val Val Asn Arg Leu Met His Gly Ile Leu Thr Glu Gln Lys Met  
 245 250 255  
 Ile Phe Ile Pro Ser Ser Ile Ala Phe Leu Thr Thr Leu Glu Arg Ile  
 260 265 270



Leu Pro Glu Arg Phe Leu Ala Val Leu Lys Arg Lys Ile Ser Val Lys  
 275 280 285

Phe Asp Ala Val Ile Gly Tyr Lys Met Lys Ala Gln  
 290 295 300

<210> 962  
 <211> 93  
 <212> PRT  
 <213> Homo sapiens

<400> 962  
 Met Pro Arg Ala Thr Leu Trp Gly His Leu Ser Pro Ala Trp Val Leu  
 1 5 10 15  
 Val Pro Trp Thr Pro Arg Ala Cys Gly Gln Ala Ala Pro Gly Arg Gly  
 20 25 30  
 His Val Ala Ser Asp His Lys Ser Gly Leu Pro Trp Pro Lys His Cys  
 35 40 45  
 Ser Cys Leu His Pro Arg Ala Ser Gln Pro Cys Leu Phe Ser Leu Asn  
 50 55 60  
 Ser Asn Arg Thr Val Phe Thr Ala Ile Gln Arg Val Ala Leu Gly Trp  
 65 70 75 80  
 Thr Phe Trp Val Gln Ala Asn Leu Val Pro Arg Cys Thr  
 85 90

<210> 963  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 963  
 Met Glu His Leu Ile Arg Ser Gly Val Lys Ile Leu Phe Leu Asn Leu  
 1 5 10 15  
 Leu Leu Thr Ser Cys Thr Thr Leu Asn Glu Trp Leu Asn Phe Leu Val  
 20 25 30  
 Thr Leu Asn Cys Ser Arg Tyr Lys Met Thr Gly  
 35 40

<210> 964  
 <211> 91  
 <212> PRT  
 <213> Homo sapiens

<400> 964

Met Arg Leu Cys Val Thr Gly Pro Pro Val Phe Phe Phe Phe Leu Asn  
 1 5 10 15  
 Phe Phe Phe Phe Leu Cys Val Gly Ala Cys Leu Gly Asp Leu Lys Ile  
 20 25 30  
 Ser Arg Leu Val Tyr Leu Cys Lys Ala Cys Leu Arg Leu Glu Tyr Leu  
 35 40 45  
 Gly Lys Glu Ser Asp Ser Met Leu Ser Glu Phe Leu Lys Gly Gln Lys  
 50 55 60  
 Lys Asn Trp Arg Leu Leu Lys Cys Arg Phe Glu Val Ile Phe Leu Lys  
 65 70 75 80  
 Tyr Tyr Phe Gly Phe Cys Asp Ile Val Lys Asn  
 85 90

<210> 965  
 <211> 198  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (29)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 965  
 Met Lys Lys Ser Leu Glu Asn Leu Asn Arg Leu Gln Val Met Leu Leu  
 1 5 10 15  
 His Leu Thr Ala Ala Phe Leu Gln Arg Ala Gln His Xaa Phe Asp Tyr  
 20 25 30  
 Lys Asp Glu Ser Gly Phe Pro Lys Pro Pro Ser Tyr Asn Val Ala Thr  
 35 40 45  
 Thr Leu Pro Ser Tyr Asp Glu Ala Glu Arg Thr Lys Ala Glu Ala Thr  
 50 55 60  
 Ile Pro Leu Val Pro Gly Arg Asp Glu Asp Phe Val Gly Arg Asp Asp  
 65 70 75 80  
 Phe Asp Asp Ala Asp Gln Leu Arg Ile Gly Asn Asp Gly Ile Phe Met  
 85 90 95  
 Leu Thr Phe Phe Met Ala Phe Leu Phe Asn Trp Ile Gly Phe Phe Leu  
 100 105 110  
 Ser Phe Cys Leu Thr Thr Ser Ala Ala Gly Arg Tyr Gly Ala Ile Ser  
 115 120 25  
 Gly Phe Gly Leu Ser Leu Ile Lys Trp Ile Leu Ile Val Arg Phe Ser  
 130 135 140

Thr Tyr Phe Pro Gly Tyr Phe Asp Gly Gln Tyr Trp Leu Trp Trp Val  
 145 150 155 160  
 Phe Leu Val Leu Gly Phe Leu Leu Phe Leu Arg Gly Phe Ile Asn Tyr  
 165 170 175  
 Ala Lys Val Arg Lys Met Pro Glu Thr Phe Ser Asn Leu Pro Arg Thr  
 180 185 190  
 Arg Val Leu Phe Ile Tyr  
 195

<210> 966  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 966  
 Met Leu Thr Tyr Leu Pro Arg Trp Cys Phe Leu Ser Leu Pro Pro Pro  
 1 5 10 15  
 Cys Cys Gly Ala Ala Ser Cys Thr Met Met His Ile Gln Ile Ile Leu  
 20 25 30  
 Asn Thr His Ile Leu Ile Glu Arg Phe Leu Gly Phe Leu Leu Asn Gln  
 35 40 45  
 Val Tyr  
 50

<210> 967  
 <211> 181  
 <212> PRT  
 <213> Homo sapiens

<400> 967  
 Met Thr Ser Arg Arg Ser Ser Thr Leu Ser Met Thr Ser Ser Leu Leu  
 1 5 10 15  
 Ser Leu Gly Cys Ala Leu Thr Ser Ala Phe Pro Ala Ser Thr Met Ser  
 20 25 30  
 Trp Val Pro Leu Leu Gln Met Leu Asp Gln Ser Pro Arg Arg Val Met  
 35 40 45  
 Arg Lys Ser Val Ser Gln Leu Cys Pro Leu Leu Arg Pro His Pro Pro  
 50 55 60  
 Leu Ser Ser Lys His Pro Leu Val Leu Pro Leu Gln Leu Pro Pro Thr  
 65 70 75 80  
 Phe Leu His Leu Leu Pro Gly Pro Gly Cys Pro Gly Gln Thr Val Ala

	85		90		95
Tyr Trp Leu Leu Glu Phe Leu Ser Arg Ala Thr Leu Lys Leu Tyr Pro					
	100		105		110
Gly Asp Arg Pro Leu Trp Leu Gln Pro Thr Arg Leu Asn Phe Lys Asp					
	115		120		125
His Trp Thr Ile Phe Ser Val Ala Ser Ala Ala Leu Phe Cys Val His					
	130		135		140
Arg Met Ala Thr Asp Arg His Ala Ser Phe Pro Thr His Trp Lys Ala					
	145		150		155
His Arg Gln Gly Glu Arg Gly His Arg Arg Cys Gln His Cys Arg Tyr					
		165	170		175
Ser Lys Asp Leu Lys					
	180				

<210> 968  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (12)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 968
Met Asn Leu Ser Ile Ile Leu Pro Asn Ser Phe Xaa His Leu Cys Asn
1 5 10 15
Phe Ser Leu Phe Leu Leu Pro Leu ProVal Pro Ser Gln Pro Leu Ile
20 25 30
Cys Ser Gly Asn Tyr Gln Ser Ser Phe Cys His Tyr Arg Leu Ile Cys
35 40 45
Ile Phe Lys Glu Ile Tyr Ile His Gly Thr Ile HisHis Leu Cys Phe
50 55 60
Val Val
65

<210> 969  
 <211> 317  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE

<222> (207)

<223> Xaa equals any of the naturally occurring amino acids

<400> 969

Met Pro Gly Leu Gly Arg Pro Arg Gln Ala Arg Trp Thr Leu Met Leu  
1 5 10 15  
Leu Leu Ser Thr Ala Met Tyr Gly Ala His Ala Pro Leu Leu Ala Leu  
20 25 30  
Cys His Val Asp Gly Arg Val Pro Phe Arg Pro Ser Ser Ala Val Leu  
35 40 45  
Leu Thr Glu Leu Thr Lys Leu Leu Leu Cys Ala Phe Ser Leu Leu Val  
50 55 60  
Gly Trp Gln Ala Trp Pro Gln Gly Pro Pro Pro Trp Arg Gln Ala Ala  
65 70 75 80  
Pro Phe Ala Leu Ser Ala Leu Leu Tyr Gly Ala Asn Asn Asn Leu Val  
85 90 95  
Ile Tyr Leu Gln Arg Tyr Met Asp Pro Ser Thr Tyr Gln Val Leu Ser  
100 105 110  
Asn Leu Lys Ile Gly Ser Thr Ala Val Leu Tyr Cys Leu Cys Leu Arg  
115 120 125  
His Arg Leu Ser Val Arg Gln Gly Leu Ala Leu Leu Leu Met Ala  
130 135 140  
Ala Gly Ala Cys Tyr Ala Ala Gly Gly Leu Gln Val Pro Gly Asn Thr  
145 150 155 160  
Leu Pro Ser Pro Pro Pro Ala Ala Ala Ala Ser Pro Met Pro Leu His  
165 170 175  
Ile Thr Pro Leu Gly Leu Leu Leu Leu Ile Leu Tyr Cys Leu Ile Ser  
180 185 190  
Gly Leu Ser Ser Val Tyr Thr Glu Leu Leu Met Lys Arg Gln Xaa Leu  
195 200 205  
Pro Leu Ala Leu Gln Asn Leu Phe Leu Tyr Thr Phe Gly Val Leu Leu  
210 215 220  
Asn Leu Gly Leu His Ala Gly Gly Gly Ser Gly Pro Gly Leu Leu Glu  
225 230 235 240  
Gly Phe Ser Gly Trp Ala Ala Leu Val Val Leu Ser Gln Ala Leu Asn  
245 250 255  
Gly Leu Leu Met Ser Ala Val Met Lys His Gly Ser Ser Ile Thr Arg  
260 265 270  
Leu Phe Val Val Ser Cys Ser Leu Val Val Asn Ala Val Leu Ser Ala  
275 280 285

Val Leu Leu Arg Leu Gln Leu Thr Ala Ala Phe Phe Leu Ala Thr Leu  
 290 295 300

Leu Ile Gly Leu Ala Met Arg Leu Tyr Tyr Gly Ser Arg  
 305 310 315

<210> 970  
 <211> 446  
 <212> PRT  
 <213> Homo sapiens

<400> 970  
 Met Leu Leu Gly Leu Leu Met Ala Ala Cys PheThr Phe Cys Leu Ser  
 1 5 10 15  
 His Gln Asn Leu Lys Glu Phe Ala Leu Thr Asn Pro Glu Lys Ser Ser  
 20 25 30  
 Thr Lys Glu Thr Glu Arg Lys Glu Thr Lys Ala GluGlu Glu Leu Asp  
 35 40 45  
 Ala Glu Val Leu Glu Val Phe His Pro Thr His Glu Trp Gln Ala Leu  
 50 55 60  
 Gln Pro Gly Gln Ala Val Pro Ala Gly Ser His Val Arg Leu Asn Leu  
 65 70 75 80  
 Gln Thr Gly Glu Arg Glu Ala Lys Leu Gln Tyr Glu Asp Lys Phe Arg  
 85 90 95  
 Asn Asn Leu Lys Gly Lys Arg Leu Asp Ile Asn Thr Asn Thr Tyr Thr  
 100 105 110  
 Ser Gln Asp Leu Lys Ser Ala Leu Ala Lys Phe Lys Glu Gly Ala Glu  
 115 120 125  
 Met Glu Ser Ser Lys Glu Asp Lys Ala Arg Gln Ala Glu Val Lys Arg  
 130 135 140  
 Leu Phe Arg Pro Ile Glu Glu Leu Lys Lys Asp Phe Asp Glu Leu Asn  
 145 150 155 160  
 Val Val Ile Glu Thr Asp Met Gln Ile Met Val Arg Leu Ile Asn Lys  
 165 170 175  
 Phe Asn Ser Ser Ser Ser Ser Leu Glu Glu Lys Ile Ala Ala Leu Phe  
 180 185 190  
 Asp Leu Glu Tyr Tyr Val His Gln Met Asp Asn Ala Gln Asp Leu Leu  
 195 200 205  
 Ser Phe Gly Gly Leu Gln Val Val Ile Asn Gly Leu Asn Ser Thr Glu  
 210 215 220

Pro Leu Val Lys Glu Tyr Ala Ala Phe Val Leu Gly Ala Ala Phe Ser  
 225 230 235 240  
 Ser Asn Pro Lys Val Gln Val Glu Ala Ile Glu Gly Gly Ala Leu Gln  
 245 250 255  
 Lys Leu Leu Val Ile Leu Ala Thr Glu Gln Pro Leu Thr Ala Lys Lys  
 260 265 270  
 Lys Val Leu Phe Ala Leu Cys Ser Leu Leu Arg His Phe Pro Tyr Ala  
 275 280 285  
 Gln Arg Gln Phe Leu Lys Leu Gly Gly Leu Gln Val Leu Arg Thr Leu  
 290 295 300  
 Val Gln Glu Lys Gly Thr Glu Val Leu Ala Val Arg Val Val Thr Leu  
 305 310 315 320  
 Leu Tyr Asp Leu Val Thr Glu Lys Met Phe Ala Glu Glu Glu Ala Glu  
 325 330 335  
 Leu Thr Gln Glu Met Ser Pro Glu Lys Leu Gln Gln Tyr Arg Gln Val  
 340 345 350  
 His Leu Leu Pro Gly Leu Trp Glu Gln Gly Trp Cys Glu Ile Thr Ala  
 355 360 365  
 His Leu Leu Ala Leu Pro Glu His Asp Ala Arg Glu Lys Val Leu Gln  
 370 375 380  
 Thr Leu Gly Val Leu Leu Thr Thr Cys Arg Asp Arg Tyr Arg Gln Asp  
 385 390 395 400  
 Pro Gln Leu Gly Arg Thr Leu Ala Ser Leu Gln Ala Glu Tyr Gln Val  
 405 410 415  
 Leu Ala Ser Leu Glu Leu Gln Asp Gly Glu Asp Glu Gly Tyr Phe Gln  
 420 425 430  
 Glu Leu Leu Gly Ser Val Asn Ser Leu Leu Lys Glu Leu Arg  
 435 440 445

<210> 971  
 <211> 140  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (129)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (132)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring amino acids

<400> 971

Met Phe Phe Ser Leu Pro Gly Leu Trp Gln Ile Ala Ser Phe Th His  
1 5 10 15

Asn Leu Ile Phe His Leu Trp Val Trp Gly Ser Glu Ser Gly Glu His  
20 25 30

Leu Gln Ser His Asn Asp Pro Asp Thr Arg Gln Gly Gly His Ile Pr  
35 40 45

Ile Arg Leu Leu Gly Glu Ser Ser Ala Ser Val Pro Gly Ser Ser Glu  
50 55 60

Gly His Thr Gly Gly Pro Ala Pro Pro Arg Val Gly Gly Ser Ala Gly  
65 70 75 80

Ile Ile Arg Thr His Val Val Phe Leu Val Ser Trp Pro Leu Leu Gln  
85 90 95

Arg Glu Gln His Arg Leu Ser Trp Lys Leu Pro Ser Val Met Trp Gly  
100 105 110

Asp Ser Arg Glu Pro His Leu Ala Arg Leu Asp Gln Ser Lys Trp Pro  
115 120 125

Xaa Ala Thr Xaa Ala Xaa Gln Tyr Leu Gly Arg Gly  
130 135 140

<210> 972

<211> 94

<212> PRT

<213> Homo sapiens

<400> 972

Met His Phe Phe Val Glu Ser Thr Ile Val Ser Asp Thr Leu Ile Thr  
1 5 10 15

Leu Ser Asn Leu Thr Phe His Lys Cys Pro Glu TyrGlu Asn Ile Ile  
20 25 30

Gln Asp Leu Asn Thr Asn Tyr Gln Asn Leu Gln Leu Ser Asn Gly Arg  
35 40 45

Leu Arg Phe Met Leu Cys His Val Phe Ser Ser Phe Leu Phe ValMet  
50 55 60

Val Phe Gln Ile Val Glu Lys Glu Asn Ile Leu Phe Val Ile Ala Ser  
65 70 75 80



Ala Ser Tyr Phe Cys Lys Thr Asn Tyr Ser Asn Ser Val Val  
85 90

<210> 973  
<211> 53  
<212> PRT  
<213> Homo sapiens

<400> 973  
Met Val Gln Phe Glu Val Ile Phe Leu Leu Phe Gly Leu Cys Phe Ser  
1 5 10 15  
Ser Ser Ser Ser Arg Leu Val Gly Ser Gln Val Glu Asn Phe Ser Pro  
20 25 30  
Thr Pro Cys Ile Phe Gln Ala Phe Arg Cys Ser Ser Leu Ala Ile Ile  
35 40 45  
Ser Met Ser Leu Ser  
50

<210> 974  
<211> 607  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (242)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 974  
Met Arg Thr Pro Gln Leu Ala Leu Leu Gln Val Phe Phe Leu Val Phe  
1 5 10 15  
Pro Asp Gly Val Arg Pro Gln Pro Ser Ser Ser Pro Ser Gly Ala Val  
20 25 30  
Pro Thr Ser Leu Glu Leu Gln Arg Gly Thr Asp Gly Gly Thr Leu Gln  
35 40 45  
Ser Pro Ser Glu Ala Thr Ala Thr Arg Pro Ala Val Pro Gly Leu Pro  
50 55 60  
Thr Val Val Pro Thr Leu Val Thr Pro Ser Ala Pro Gly Asn Arg Thr  
65 70 75 80  
Val Asp Leu Phe Pro Val Leu Pro Ile Cys Val Cys Asp Leu Thr Pro  
85 90 95  
Gly Ala Cys Asp Ile Asn Cys Cys Cys Asp Arg Asp Cys Tyr Leu Leu  
100 105 110

His Pro Arg Thr Val Phe Ser Phe Cys Leu Pro Gly Ser Val Arg Ser  
 115 120 125  
 Ser Ser Trp Val Cys Val Asp Asn Ser Val Ile Phe Arg Ser Asn Ser  
 130 135 140  
 Pro Phe Pro Ser Arg Val Phe Met Asp Ser Asn Gly Ile Arg Gln Phe  
 145 150 155 160  
 Cys Val His Val Asn Asn Ser Asn Leu Asn Tyr Phe Gln Lys Leu Gln  
 165 170 175  
 Lys Val Asn Ala Thr Asn Phe Gln Ala Leu Ala Ala Glu Phe Gly Gly  
 180 185 190  
 Glu Ser Phe Thr Ser Thr Phe Gln Thr Gln Ser Pro Pro Ser Phe Tyr  
 195 200 205  
 Arg Ala Gly Asp Pro Ile Leu Thr Tyr Phe Pro Lys Trp Ser Val Ile  
 210 215 220  
 Ser Leu Leu Arg Gln Pro Ala Gly Val Gly Ala Gly Gly Leu Cys Ala  
 225 230 235 240  
 Glu Xaa Asn Pro Ala Gly Phe Leu Glu Ser Lys Ser Thr Thr Cys Thr  
 245 250 255  
 Arg Phe Phe Lys Asn Leu Ala Ser Ser Cys Thr Leu Asp Ser Ala Leu  
 260 265 270  
 Asn Ala Ala Ser Tyr Tyr Asn Phe Thr Val Leu Lys Val Pro Arg Ser  
 275 280 285  
 Met Thr Asp Pro Gln Asn Met Glu Phe Gln Val Pro Val Ile Leu Thr  
 290 295 300  
 Ser Gln Ala Asn Ala Pro Leu Leu Ala Gly Asn Thr Cys Gln Asn Val  
 305 310 315 320  
 Val Ser Gln Val Thr Tyr Glu Ile Glu Thr Asn Gly Thr Phe Gly Ile  
 325 330 335  
 Gln Lys Val Ser Val Ser Leu Gly Gln Thr Asn Leu Thr Val Glu Pro  
 340 345 350  
 Gly Ala Ser Leu Gln Gln His Phe Ile Leu Arg Phe Arg Ala Phe Gln  
 355 360 365  
 Gln Ser Thr Ala Ala Ser Leu Thr Ser Pro Arg Ser Gly Asn Phe Gly  
 370 375 380  
 Tyr Ile Val Gly Lys Pro Leu Leu Ala Leu Thr Asp Asp Ile Ser Tyr  
 385 390 395 400  
 Ser Met Thr Leu Leu Gln Ser Gln Gly Asn Gly Ser Cys Ser Val Lys  
 405 410 415

Arg His Glu Val Gln Phe Gly Val Asn Ala Ile Ser Gly Cys Lys Leu  
 420 425 430  
 Arg Leu Lys Lys Ala Asp Cys Ser His Leu Gln Gln Glu Ile Tyr Gln  
 435 440 445  
 Thr Leu His Gly Arg Pro Arg Pro Glu Tyr Val Ala Ile Phe Gly Asn  
 450 455 460  
 Ala Asp Pro Ala Gln Lys Gly Gly Trp Thr Arg Ile Leu Asn Arg His  
 465 470 475 480  
 Cys Ser Ile Ser Ala Ile Asn Cys Thr Ser Cys Cys Leu Ile Pro Val  
 485 490 495  
 Ser Leu Glu Ile Gln Val Leu Trp Ala Tyr Val Gly Leu Leu Ser Asn  
 500 505 510  
 Pro Gln Ala His Val Ser Gly Val Arg Phe Leu Tyr Gln Cys Gln Ser  
 515 520 525  
 Ile Gln Asp Ser Gln Gln Val Thr Glu Val Ser Leu Thr Thr Leu Val  
 530 535 540  
 Asn Phe Val Asp Ile Thr Gln Lys Pro Gln Pro Pro Arg Gly Gln Pro  
 545 550 555 560  
 Lys Met Asp Trp Lys Trp Pro Phe Asp Phe Phe Pro Phe Lys Val Ala  
 565 570 575  
 Phe Ser Arg Gly Val Phe Ser Gln Lys Cys Ser Val Ser Pro Ile Leu  
 580 585 590  
 Ile Leu Cys Leu Leu Leu Leu Gly Val Leu Asn Leu Glu Thr Met  
 595 600 605

<210> 975  
 <211> 79  
 <212> PRT  
 <213> Homo sapiens

<400> 975  
 Met Asn Tyr Ser Arg Ser Pro Trp Ala Ala Val Met Glu Pro Leu Thr  
 1 5 10 15  
 Leu Leu Phe Leu His Leu Ser Cys Leu Leu Ser Leu CysGlu Ala Val  
 20 25 30  
 Gly Trp Asp Ser Glu Cys Leu Val Cys Ser Leu Gly Glu Glu Glu Phe  
 35 40 45  
 Leu Arg Met Gln Ala Leu Leu Cys Gly Cys Arg Leu His Leu Gly Gly  
 50 55 60

Val Leu Tyr Val Cys Thr Leu Gly Thr Ala Cys Ile Trp Lys Ile  
 65 70 75

<210> 976  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 976  
 Met Pro Ser Ser Trp Leu Pro Gly Cys Phe Val Leu Leu Cys Leu Val  
 1 5 10 15  
 Ala Val Gly Cys Gln Leu Arg Glu Trp Gly Val Gly Gly Val Ser Ala  
 20 25 30  
 Val Gly Leu Leu Ala Leu Pro His Leu Gln Val Leu Gly Met Arg Gly  
 35 40 45  
 Arg Gly Leu Ile Ser Gly Gly  
 50 55

<210> 977  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 977  
 Met Asp Ser Cys Leu Phe Leu Arg Asp Phe Cys Trp Lys Met Arg Met  
 1 5 10 15  
 Leu Thr Ile Leu Pro Leu Gly Thr Leu Phe Pro Leu Leu Thr Leu Leu  
 20 25 30  
 Leu Leu Pro Leu Glu Val Pro Ser Val Ser Cys Gly Val Pro Phe Ala  
 35 40 45  
 Val Trp Asp Leu  
 50

<210> 978  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 978  
 Met Ala Thr Leu Gln Ile Thr Thr Ala Met Lys Ile Thr Met Met Ile  
 1 5 10 15  
 Thr Met Val Met Ile Ile Thr Thr Ile Val Glu Ala Met Lys Ile Pro  
 20 25 30

Thr Thr Ala Met Met Met Ala Met Gln  
 35 40

<210> 979  
 <211> 129  
 <212> PRT  
 <213> Homo sapiens

<400> 979  
 Met His Val Leu Pro Leu Leu Leu Ser Leu Leu Leu Leu Leu Leu  
 1 5 10 15  
 Leu Ser Ala Ser Phe Val Thr Phe Ser Thr Pro Thr Ser Ser Arg Asn  
 20 25 30  
 Ser Ser Cys Pro Asp Cys Glu Ser Leu Asn Thr Gly Leu Pro Ser Leu  
 35 40 45  
 Met Met Phe Gly Gly Ser Leu Leu Lys Trp Val Gln Asn Thr His Gly  
 50 55 60  
 Val Glu Ser Leu Leu Ser Ser Ala Lys Val Arg Leu Leu Pro Pro Ala  
 65 70 75 80  
 Leu Gly Val Leu Phe Pro Arg Leu His Pro Gly Thr Leu Thr Leu Val  
 85 90 95  
 Phe Leu Leu Ile Pro Phe Leu Thr Val Ser Ser Ser Thr Ser Asp Val  
 100 105 110  
 Leu Ser Ser Leu Glu Ser Pro Lys Leu Ser Val Thr Ile Phe His Tyr  
 115 120 125

Cys

<210> 980  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 980  
 Met Tyr Ile Phe Glu Leu Ser Leu Tyr Leu Glu Gly Thr Ser Phe Val  
 1 5 10 15  
 Val Val Leu Leu Phe Leu Leu Ile Ser Val Ser Leu Asp Ser Pro Pro  
 20 25 30  
 Thr Thr Lys Gly Trp Asp Ser Val Leu His Ile Trp Val Pro Leu Ile  
 35 40 45  
 Val Gln  
 50

<210> 981  
 <211> 264  
 <212> PRT  
 <213> Homo sapiens

<400> 981

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Met Leu Arg Cys Gly Gly Arg Gly Leu Leu Leu Gly Leu Ala Val Ala
 1          5          10          15

Ala Ala Ala Val Met Ala Ala Arg Leu Met Gly Trp Trp Gly Pro Arg
 20          25          30

Ala Gly Phe Arg Leu Phe Ile Pro Glu Glu Leu Ser Arg Tyr Arg Gly
 35          40          45

Gly Pro Gly Asp Pro Gly Leu Tyr Leu Ala Leu Leu Gly Arg Val Tyr
 50          55          60

Asp Val Ser Ser Gly Arg Arg His Tyr Glu Pro Gly Ser His Tyr Ser
 65          70          75          80

Gly Phe Ala Gly Arg Asp Ala Ser Arg Ala Phe Val Thr Gly Asp Cys
 85          90          95

Ser Glu Ala Gly Leu Val Asp Asp Val Ser Asp Leu Ser Ala Ala Glu
100          105          110

Met Leu Thr Leu His Asn Trp Leu Ser Phe Tyr Glu Lys Asn Tyr Val
115          120          125

Cys Val Gly Arg Val Thr Gly Arg Phe Tyr Gly Glu Asp Gly Leu Pro
130          135          140

Thr Pro Ala Leu Thr Gln Val Glu Ala Ala Ile Thr Arg Gly Leu Glu
145          150          155          160

Ala Asn Lys Leu Gln Leu Gln Glu Lys Gln Thr Phe Pro Pro Cys Asn
165          170          175

Ala Glu Trp Ser Ser Ala Arg Gly Ser Arg Leu Trp Cys Ser Gln Lys
180          185          190

Ser Gly Gly Val Ser Arg Asp Trp Ile Gly Val Pro Arg Lys Leu Tyr
195          200          205

Lys Pro Gly Ala Lys Glu Pro Arg Cys Val Cys Val Arg Thr Thr Gly
210          215          220

Pro Pro Ser Gly Gln Met Pro Asp Asn Pro Pro His Arg Asn Arg Gly
225          230          235          240

Asp Leu Asp His Pro Asn Leu Ala Glu Tyr Thr Gly Cys Pro Pro Leu
245          250          255

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Ala Ile Thr Cys Ser Phe Pro Leu  
260

<210> 982  
<211> 72  
<212> PRT  
<213> Homo sapiens

<400> 982  
Met Thr Ser Tyr Ile Leu Ile Ser Phe Val Leu Leu Ile Gly Val Gly  
1 5 10 15  
Cys Ile Glu Lys Asp Gln Ser Cys Pro Val Phe Gly Gly Arg Lys Arg  
20 25 30  
Leu His Leu Leu Phe Val Gly Gly Gln Leu Arg Gln Val Arg Met Leu  
35 40 45  
Arg Gly Glu Leu Ser Cys Ala Cys Tyr Arg Pro His Val Gln Ala Leu  
50 55 60  
Gln Leu Gly Gly Cys Thr Cys Phe  
65 70

<210> 983  
<211> 140  
<212> PRT  
<213> Homo sapiens

<400> 983  
Met Leu Gly Thr Ser Leu Ile Tyr Trp Thr Leu Phe Thr Leu Gly Leu  
1 5 10 15  
Asp Leu Ser Trp Ser Ile Ser Leu Ala Phe Lys Trp Cys Glu Arg Pro  
20 25 30  
Glu Trp Ile His Val Asp Ser Arg Pro Phe Ala Ser Leu Ser Arg Asp  
35 40 45  
Ser Gly Ala Ala Leu Gly Leu Gly Ile Ala Leu His Ser Pro Cys Tyr  
50 55 60  
Ala Gln Val Arg Arg Ala Gln Leu Gly Asn Gly Gln Lys Ile Ala Cys  
65 70 75 80  
Leu Val Leu Ala Met Gly Leu Leu Gly Pro Leu Asp Trp Leu Gly His  
85 90 95  
Pro Pro Gln Ile Ser Leu Phe Tyr Ile Phe Asn Phe Leu Lys Tyr Thr  
100 105 110  
Leu Trp Pro Cys Leu Val Leu Ala Leu Val Pro Trp Ala Val His Met  
115 120 125

Phe Ser Ala Gln Glu Ala Pro Pro Ile His Ser Ser  
 130 135 140

<210> 984  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<400> 984  
 Met Val Leu Leu Cys Leu Leu Leu Val Pro Leu Leu Leu Ser Leu Phe  
 1 5 10 15  
 Val Leu Gly Leu Phe Leu Trp Phe Leu Lys Arg Glu Arg Gln Glu Glu  
 20 25 30  
 Tyr Ile Glu Glu Lys Lys Arg Val Asp Ile Cys Arg Glu Thr Pro Asn  
 35 40 45  
 Ile Cys Pro His Ser Gly Glu Asn Thr Glu Tyr Asp Thr Ile Pro His  
 50 55 60  
 Thr Asn Arg Thr Ile Leu Lys Glu Asp Pro Ala Asn Thr Val Tyr Ser  
 65 70 75 80  
 Thr Val Glu Ile Pro Lys Lys Met Glu Asn Pro His Ser Leu Leu Thr  
 85 90 95  
 Met Pro Asp Thr Pro Arg Leu Phe Ala Tyr Glu Asn Val Ile  
 100 105 110

<210> 985  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 985  
 Met Ala Gly Gln His Leu Ala Cys Leu Ala Ser Cys Val Met Ser Leu  
 1 5 10 15  
 Ile Trp Phe Phe Phe Phe Cys Ser Cys Phe Ile Cys Ser Ala Pro Ala  
 20 25 30  
 Pro Pro Gln Gln Leu Val Ala Tyr Gly Phe Phe Lys Arg Lys Val Asp  
 35 40 45  
 Phe Met Leu Tyr Ile  
 50

<210> 986  
 <211> 248



<212> PRT

<213> Homo sapiens

<400> 986

Met Gly Pro Val Arg Leu Gly Ile Leu Leu Phe Leu Phe Leu Ala Val  
1 5 10 15  
His Glu Ala Trp Ala Gly Met Leu Lys Glu Glu Asp Asp Asp Thr Glu  
20 25 30  
Arg Leu Pro Ser Lys Cys Glu Val Cys Lys Leu Leu Ser Thr Glu Leu  
35 40 45  
Gln Ala Glu Leu Ser Arg Thr Gly Arg Ser Arg Glu Val Leu Glu Leu  
50 55 60  
Gly Gln Val Leu Asp Thr Gly Lys Arg Lys Arg His Val Pro Tyr Ser  
65 70 75 80  
Val Ser Glu Thr Arg Leu Glu Glu Ala Leu Glu Asn Leu Cys Glu Arg  
85 90 95  
Ile Leu Asp Tyr Ser Val His Ala Glu Arg Lys Gly Ser Leu Arg Tyr  
100 105 110  
Ala Lys Gly Gln Ser Gln Thr Met Ala Thr Leu Lys Gly Leu Val Gln  
115 120 125  
Lys Gly Val Lys Val Asp Leu Gly Ile Pro Leu Glu Leu Trp Asp Glu  
130 135 140  
Pro Ser Val Glu Val Thr Tyr Leu Lys Lys Gln Cys Glu Thr Met Leu  
145 150 155 160  
Glu Glu Phe Glu Asp Ile Val Gly Asp Trp Tyr Phe His His Gln Glu  
165 170 175  
Gln Pro Leu Gln Asn Phe Leu Cys Glu Gly His Val Leu Pro Ala Ala  
180 185 190  
Glu Thr Ala Cys Leu Gln Glu Thr Trp Thr Gly Lys Glu Ile Thr Asp  
195 200 205  
Gly Glu Glu Lys Thr Glu Gly Glu Glu Glu Gln Glu Glu Glu Glu  
210 215 220  
Glu Glu Glu Glu Glu Gly Gly Asp Lys Met Thr Lys Thr Gly Ser His  
225 230 235 240  
Pro Lys Leu Asp Arg Glu Asp Leu  
245

<210> 987

<211> 64

<212> PRT

<213> Homo sapiens

<400> 987

Met Pro Leu Phe Leu Phe Val Ala His Leu Ile Ser Leu Leu Leu Ala  
1 5 10 15  
Phe Arg Arg Pro Pro Ala Ser Gln Ile Thr Pro Arg Ala Trp Thr Thr  
20 25 30  
Glu Ile Ala Ser Cys Glu Ser Val Glu Met Val Lys Ala Leu Ser Ser  
35 40 45  
Leu Arg Ser Arg Ala Gln Val Asn Ala Asp Phe Pro Gly His Leu Cys  
50 55 60

<210> 988

<211> 56

<212> PRT

<213> Homo sapiens

<400> 988

Met Leu Val Ala Pro Phe Asn Leu Leu Phe Glu Met Ala Pro Phe Asn  
1 5 10 15  
Ile Phe Leu Phe Pro Gln Trp Gly Leu Leu Trp Leu Met Leu Tyr Leu  
20 25 30  
Leu Tyr Val Phe Gln Ala Ser Leu Arg Thr Pro Glu Leu Thr Trp Glu  
35 40 45  
Arg Val Arg Ser Gln Val Asp Gln  
50 55

<210> 989

<211> 182

<212> PRT

<213> Homo sapiens

<400> 989

Met Met Val Cys Ser Ile Met Met Tyr Phe Leu Leu Gly Ile Thr Leu  
1 5 10 15  
Leu Arg Ser Tyr Met Gln Ser Val Trp Thr Glu Glu Ser Gln Cys Thr  
20 25 30  
Leu Leu Asn Ala Ser Ile Thr Glu Thr Phe Asn Cys Ser Phe Ser Cys  
35 40 45  
Gly Pro Asp Cys Trp Lys Leu Ser Gln Tyr Pro Cys Leu Gln Val Tyr  
50 55 60

Val Asn Leu Thr Ser Ser Gly Glu Lys Leu Leu Leu Tyr HisThr Glu  
 65 70 75 80  
 Glu Thr Ile Lys Ile Asn Gln Lys Cys Ser Tyr Ile Pro Lys Cys Gly  
 85 90 95  
 Lys Asn Phe Glu Glu Ser Met Ser Leu Val Asn Val ValMet Glu Asn  
 100 105 110  
 Phe Arg Lys Tyr Gln His Phe Ser Cys Tyr Ser Asp Pro Glu Gly Asn  
 115 120 125  
 Gln Lys Ser Val Ile Leu Thr Lys Leu Tyr Ser Ser Asn Val Leu Phe  
 130 135 140  
 His Ser Leu Phe Trp Pro Thr Cys Met Met Ala Gly Gly Val Ala Ile  
 145 150 155 160  
 Val Ala Met Val Lys Leu Thr Gln Tyr Leu Ser Leu Leu Cys Glu Arg  
 165 170 175  
 Ile Gln Arg Ile Asn Arg  
 180

<210> 990  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 990  
 Met Leu Val Phe Leu Leu Leu Phe Ser Thr Val Thr Val Leu Cys Leu  
 1 5 10 15  
 Lys Val Val Phe Ser Leu Lys Ala Val Ala Tyr Ile Val Lys Asn Glu  
 20 25 30  
 Gly Leu Cys Leu Lys Phe Ile Ala Leu Gln Arg Val Val Ser Leu Lys  
 35 40 45  
 Ser Cys Thr Ile Lys  
 50

<210> 991  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<400> 991  
 Met Thr Val Ser Tyr Phe Trp Trp Leu Arg Val Gly Ala Trp Ala Glu  
 1 5 10 15  
 Asp Val Glu Ala Leu Ala Ser Leu Pro Glu Asp Arg Leu Arg Trp Asn



Ile Ser Lys Cys His Tyr Leu Val Asp Leu Asp Thr Met Arg Glu Thr  
 180 185 190  
 Pro Arg Glu Pro Lys Tyr Ser Ser Asn Lys Glu Glu Trp Ile Ser Leu  
 195 200 205  
 Ala Tyr Arg Pro Phe Leu Asp Ala Ser Arg Ser Ser Lys Leu Leu Arg  
 210 215 220  
 Ala Phe Tyr Val Pro Phe Leu Ser Asp Gln Tyr Thr Val Tyr Val Asn  
 225 230 235 240  
 Tyr Thr Ile Leu Lys Pro Arg Lys Ala Lys Gln Ile Arg Lys Lys Ser  
 245 250 255  
 Gly Gly

<210> 993  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 993  
 Met Val Val Asn Asp Arg Leu Val Ser Thr Cys Ile Leu Cys Thr Leu  
 1 5 10 15  
 His Ile Pro Leu Phe Phe Leu Ile Phe Leu Val Tyr Glu Val His Leu  
 20 25 30  
 Val Phe Gln Ile Val Ala Asn Leu Gln Lys Ile Phe Gln Tyr Ile Tyr  
 35 40 45

<210> 994  
 <211> 202  
 <212> PRT  
 <213> Homo sapiens

<400> 994  
 Met Ser Leu Leu Val Asp Gly Asp Met Asn Leu Ser Ile Ile Met Thr  
 1 5 10 15  
 Ile Ser Ser Thr Leu Leu Ala Leu Val Leu Met Pro Leu Cys Leu Trp  
 20 25 30  
 Ile Tyr Ser Trp Ala Trp Ile Asn Thr Pro Ile Val Gln Leu Leu Pro  
 35 40 45  
 Leu Gly Thr Val Thr Leu Thr Leu Cys Ser Thr Leu Ile Pro Ile Gly



<210> 996  
 <211> 185  
 <212> PRT  
 <213> Homo sapiens

<400> 996  
 Met Ser Pro Ser Gly Arg Leu Cys Leu Leu Thr Ile Val Gly Leu Ile  
   1                  5                  10                  15  
 Leu Pro Thr Arg Gly Gln Thr Leu Lys Asp Thr Thr Ser Ser Ser Ser  
           20                  25                  30  
 Ala Asp Ser Thr Ile Met Asp Ile Gln Val Pro Thr Arg Ala Pro Asp  
           35                  40                  45  
 Ala Val Tyr Thr Glu Leu Gln Pro Thr Ser Pro Thr Pro Thr Trp Pro  
           50                  55                  60  
 Ala Asp Glu Thr Pro Gln Pro Gln Thr Gln Thr Gln Gln Leu Glu Gly  
           65                  70                  75                  80  
 Thr Asp Gly Pro Leu Val Thr Asp Pro Glu Thr His Lys Ser Thr Lys  
                   85                  90                  95  
 Ala Ala His Pro Thr Asp Asp Thr Thr Thr Leu Ser Glu Arg Pro Ser  
                   100                  105                  110  
 Pro Ser Thr Asp Val Gln Thr Asp Pro Gln Thr Leu Lys Pro Ser Gly  
           115                  120                  125  
 Phe His Glu Asp Asp Pro Phe Phe Tyr Asp Glu His Thr Leu Arg Lys  
           130                  135                  140  
 Arg Gly Leu Leu Val Ala Ala Val Leu Phe Ile Thr Gly Ile Ile Ile  
           145                  150                  155                  160  
 Leu Thr Ser Gly Lys Cys Arg Gln Leu Ser Arg Tyr Ala Gly Ile Ile  
                   165                  170                  175  
 Gly Gly Glu Ser Ile Arg Asn Arg Ser  
           180                  185

<210> 997  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 997  
 Glu Leu Leu Phe Leu Leu Ile Ile Ile Leu Gly Glu Ser Leu Ser Asp  
   1                  5                  10                  15  
 Val Ile Leu Leu Ile Cys Phe  
           20

<210> 998  
 <211> 197  
 <212> PRT  
 <213> Homo sapiens

<400> 998  
 Met Ala Gly Pro Trp Thr Phe Thr Leu Leu Cys Gly Leu Leu Ala Ala  
   1                  5                  10                  15  
 Thr Leu Ile Gln Ala Thr Leu Ser Pro Thr Ala Val Leu Ile Leu Gly  
           20                  25                  30  
 Pro Lys Val Ile Lys Glu Lys Leu Thr Gln Glu Leu Lys Asp His Asn  
           35                  40                  45  
 Ala Thr Ser Ile Leu Gln Gln Leu Pro Leu Leu Ser Ala Met Arg Glu  
           50                  55                  60  
 Lys Pro Ala Gly Gly Ile Pro Val Leu Gly Ser Leu Val Asn Thr Val  
   65                  70                  75                  80  
 Leu Lys His Ile Ile Trp Leu Lys Val Ile Thr Ala Asn Ile Leu Gln  
                   85                  90                  95  
 Leu Gln Val Lys Pro Ser Ala Asn Asp Gln Glu Leu Leu Val Lys Ile  
                   100                  105                  110  
 Pro Leu Asp Met Val Ala Gly Phe Asn Thr Pro Leu Val Lys Thr Ile  
           115                  120                  125  
 Val Glu Phe His Met Thr Thr Glu Ala Gln Ala Thr Ile Arg Met Asp  
   130                  135                  140  
 Thr Ser Ala Ser Gly Pro Thr Arg Leu Val Leu Ser Asp Cys Ala Thr  
   145                  150                  155                  160  
 Ser His Gly Ser Leu Arg Ile Gln Leu Leu His Lys Leu Ser Phe Leu  
                   165                  170                  175  
 Val Asn Ala Leu Ala Lys Gln Val Met Asn Leu Leu Val Pro Ser Met  
           180                  185                  190  
 Pro Arg Trp Pro Asn  
           195

<210> 999  
 <211> 146  
 <212> PRT  
 <213> Homo sapiens

<400> 999  
 Met Leu Met Pro Val His Phe Leu Leu Leu Leu Leu Leu Gly  
   1                  5                  10                  15



Gly Pro Arg Thr Gly Leu Pro His Lys Phe Tyr Lys Ala Lys Pro Ile  
                   20                  25                  30  
 Phe Ser Cys Leu Asn Thr Ala Leu Ser Glu Ala Glu Lys Gly Gln Trp  
                   35                  40                  45  
 Glu Asp Ala Ser Leu Leu Ser Lys Arg Ser Phe His Tyr Leu Arg Ser  
           50                  55                  60  
 Arg Asp Ala Ser Ser Gly Glu Glu Glu Glu Gly Lys Glu Lys Lys Thr  
   65                  70                  75                  80  
 Phe Pro Ile Ser Gly Ala Arg Gly Gly Ala Arg Gly Thr Arg Tyr Arg  
                   85                  90                  95  
 Tyr Val Ser Gln Ala Gln Pro Arg Gly Lys Pro Arg Gln Asp Thr Ala  
                   100                  105                  110  
 Lys Ser Pro His Arg Thr Lys Phe Thr Leu Ser Leu Asp Val Pro Thr  
           115                  120                  125  
 Asn Ile Met Asn Leu Leu Phe Asn Ile Ala Lys Ala Lys Asn Leu Arg  
   130                  135                  140  
 Ala Gln  
 145

<210> 1000  
 <211> 174  
 <212> PRT  
 <213> Homo sapiens

<400> 1000  
 Met Glu Ala Pro Gly Pro Arg Ala Leu Arg Thr Ala Leu Cys Gly Gly  
   1                  5                  10                  15  
 Cys Cys Cys Leu Leu Leu Cys Ala Gln Leu Ala Val Ala Gly Lys Gly  
           20                  25                  30  
 Ala Arg Gly Phe Gly Arg Gly Ala Leu Ile Arg Leu Asn Ile Trp Pro  
           35                  40                  45  
 Ala Val Gln Gly Ala Cys Lys Gln Leu Glu Val Cys Glu His Cys Val  
           50                  55                  60  
 Glu Gly Asp Arg Ala Arg Asn Leu Ser Ser Cys Met Trp Glu Gln Cys  
   65                  70                  75                  80  
 Arg Pro Glu Glu Pro Gly His Cys Val Ala Gln Ser Glu Val Val Lys  
           85                  90                  95  
 Glu Gly Cys Ser Ile Tyr Asn Arg Ser Glu Ala Cys Pro Ala Ala His  
           100                  105                  110  
 His His Pro Thr Tyr Glu Pro Lys Thr Val Thr Thr Gly Ser Pro Pro

115                      120                      125  
 Val Pro Glu Ala His Ser Pro Gly Phe Asp Gly Ala S~~e~~ Phe Ile Gly  
 130                      135                      140  
 Gly Val Val Leu Val Leu Ser Leu Gln Ala Val Ala Phe Phe Val Leu  
 145                      150                      155                      160  
 His Phe Leu Lys Ala Lys Asp Ser Thr Tyr Gln Thr Leu Ile  
 165                      170

<210> 1001  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 1001  
 Met Pro Phe Ser Ser Ser Val Lys Cys Leu Phe Gly Val Leu Leu Arg  
 1                      5                      10                      15  
 Phe Cys Phe Val Val Phe Ser Val Val Val Phe Thr Phe Phe Leu Ser  
 20                      25                      30  
 Ile Pro Lys Arg Thr Leu Gly Tyr  
 35                      40

<210> 1002  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 1002  
 Met Ile Ala Cys Gln Tyr Ile Ser Leu Ala Ile Met Leu Ala Phe Val  
 1                      5                      10                      15  
 Arg Trp Ala Ala Phe Leu Leu Phe Pro Phe Leu Cys Gly Asp Asn Gly  
 20                      25                      30  
 Gly Asn Ile Gln Gln Lys Tyr Val  
 35                      40

<210> 1003  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 1003  
 Met Glu Met Leu Ser Ser Lys Trp Ser Lys Arg Val Ala Ala Ser Leu  
 1                      5                      10                      15  
 Ala His Leu Ile Ser Leu Phe Ile Gly Leu Leu Phe Leu Leu Leu Gly

20                      25                      30  
 Ser Ser Val Tyr Pro Gly Thr Glu Thr Leu Phe Pro Lys Ser  
       35                      40                      45

<210> 1004  
 <211> 244  
 <212> PRT  
 <213> Homo sapiens

<400> 1004  
 Met Val Ala Val Gly Val Tyr Ala Arg Leu Met Lys His Ala Glu Ala  
   1                  5                  10                  15  
 Ala Leu Ala Cys Leu Ala Val Asp Pro Ala Ile Leu Leu Ile Val Val  
           20                  25                  30  
 Gly Val Leu Met Phe Leu Leu Thr Phe Cys Gly Cys Ile Gly Ser Leu  
       35                  40                  45  
 Arg Glu Asn Ile Cys Leu Leu Gln Thr Phe Ser Leu Cys Leu Thr Ala  
       50                  55                  60  
 Val Phe Leu Leu Gln Leu Ala Ala Gly Ile Leu Gly Phe Val Phe Ser  
       65                  70                  75                  80  
 Asp Lys Ala Arg Gly Lys Val Ser Glu Ile Ile Asn Asn Ala Ile Val  
           85                  90                  95  
 His Tyr Arg Asp Asp Leu Asp Leu Gln Asn Leu Ile Asp Phe Gly Gln  
          100                 105                 110  
 Lys Lys Phe Ser Cys Cys Gly Gly Ile Ser Tyr Lys Asp Trp Ser Gln  
      115                 120                 125  
 Asn Met Tyr Phe Asn Cys Ser Glu Asp Asn Pro Ser Arg Glu Arg Cys  
      130                 135                 140  
 Ser Val Pro Tyr Ser Cys Cys Leu Pro Thr Pro Asp Gln Ala Val Ile  
      145                 150                 155                 160  
 Asn Thr Met Cys Gly Gln Gly Met Gln Ala Phe Asp Tyr Leu Glu Ala  
          165                 170                 175  
 Ser Lys Val Ile Tyr Thr Asn Gly Cys Ile Asp Lys Leu Val Asn Trp  
      180                 185                 190  
 Ile His Ser Asn Leu Phe Leu Leu Gly Gly Val Ala Leu Gly Leu Ala  
      195                 200                 205  
 Ile Pro Gln Leu Val Gly Ile Leu Leu Ser Gln Ile Leu Val Asn Gln  
      210                 215                 220  
 Ile Lys Asp Gln Ile Lys Leu Gln Leu Tyr Asn Gln Gln His Arg Ala  
      225                 230                 235                 240

Asp Pro Trp Tyr

<210> 1005  
<211> 74  
<212> PRT  
<213> Homo sapiens

<400> 1005  
Met Ala Cys Leu Gly Ala Pro Ile Ser SerLeu Leu Cys Trp Leu Leu  
1 5 10 15  
Leu Ala Leu Ile Ala Leu Glu Ile Val Pro Pro Ala Ala Pro Cys Glu  
20 25 30  
Val Leu Thr Pro Leu Gln Ser Ser Thr Asn ProIle Val Asn Lys Leu  
35 40 45  
Gly Val Lys Asp Val Asn Glu Leu Val Thr Pro Met Gln Gly Ile Gln  
50 55 60  
Thr Cys Phe Asn Ile Lys Lys Lys Trp Pro  
65 70

<210> 1006  
<211> 245  
<212> PRT  
<213> Homo sapiens

<400> 1006  
Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser  
1 5 10 15  
Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala ProAsp Gly Lys  
20 25 30  
Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys  
35 40 45  
Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln  
50 55 60  
Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly  
65 70 75 80  
Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile  
85 90 95  
Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln  
100 105 110  
Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly



<213> Homo sapiens

<400> 1008

Met Tyr Leu Phe Leu Lys Thr Leu Leu Ser Phe Ser Thr Leu Met Met  
1 5 10 15  
Thr Thr Ala Leu Ser Phe Met Val Ile Thr Val Leu Trp Val Leu Leu  
20 25 30  
Leu His Leu Leu Ala Asn Ile Cys Ile Pro Arg Lys Cys Ser Phe Ala  
35 40 45  
Cys Phe Tyr Ile Asn Gly Ile Leu Leu His Ala Val Phe  
50 55 60

<210> 1009

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1009

Met Arg Gly Thr Pro Lys Thr His Leu Leu Ala Phe Ser Leu Leu Cys  
1 5 10 15  
Leu Leu Ser Lys Val Arg Thr Gln Leu Cys Pro Thr Pro Cys Thr Cys  
20 25 30  
Pro Trp Pro Pro Pro Arg Cys Pro Leu Gly Val Pro Leu Val Leu Asp  
35 40 45  
Gly Cys Gly Cys Cys Arg Val Cys Ala Arg Arg Leu Gly Glu Pro Cys  
50 55 60  
Asp Gln Leu His Val Cys Asp Ala Ser Gln Gly Leu Val Cys Gln Pro  
65 70 75 80  
Gly Ala Gly Pro Gly Gly Arg Gly Ala Leu Cys Leu Leu Ala Glu Asp  
85 90 95  
Asp Ser Ser Cys Glu Val Asn Gly Arg Leu Tyr Arg Glu Gly Glu Thr  
100 105 110  
Phe Gln Pro His Cys Ser Ile Arg Cys Arg Cys Glu Asp Gly Gly Phe  
115 120 125  
Thr Cys Val Pro Leu Cys Ser Glu Asp Val Arg Leu Pro Ser Trp Asp  
130 135 140  
Cys Pro His Pro Arg Arg Val Glu Val Leu Gly Lys Cys Cys Pro Glu  
145 150 155 160  
Trp Val Cys Gly Gln Gly Gly Gly Leu Gly Thr Gln Pro Leu Pro Ala  
165 170 175  
Gln Gly Pro Gln Phe Ser Gly Leu Val Ser Ser Leu Pro Pro Gly Val

180	185	190
Pro Cys Pro Glu Trp Ser Thr Ala Trp Gly Pro Cys Ser Thr Thr <del>As</del>		
195	200	205
Gly Leu Gly Met Ala Thr Arg Val Ser Asn Gln Asn Arg Phe Cys Arg		
210	215	220
Leu Glu Thr Gln Arg Arg Leu Cys Leu Ser Arg Pro Cys Pro Pro Ser		
225	230	235
Arg Gly Arg Ser Pro Gln Asn Ser Ala Phe		
245	250	

<210> 1010  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<400> 1010
Met Val Leu Ser Pro Trp Ala Cys Leu Phe Val Val He Phe Pro Tyr
1 5 10 15
Ile Gln Ser Ser Leu Arg Ser Asp Lys His Leu Gln Leu Ser Asn Ile
20 25 30
Leu Pro Thr Pro Ser His His Ile His Leu Pro Ala Ser Ie Cys Ile
35 40 45
Gln Leu Arg Ala Gly Asn
50

<210> 1011  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<400> 1011
Met Ala Val Ser Val Ile Phe Cys Gln Lys Leu Lys Thr Gly Ser Val
1 5 10 15
Lys Leu Trp Ile Gln Met Leu Leu Trp Leu Gln Phe Ser Val Ala Cys
20 25 30
Leu Arg Leu Arg Lys Gly Gly Lys Trp Ser Pro Trp Gly Leu Met Leu
35 40 45
Lys Glu Val Ile Trp Lys Asp Cys Arg
50 55

<210> 1012

<211> 83  
 <212> PRT  
 <213> Homo sapiens

<400> 1012  
 Met Leu Ser Leu Phe Phe Cys Phe Trp Lys Pro Ser Phe Leu Val Ser  
   1                  5                  10                  15  
 Arg Leu Val Ile Trp Leu Gly Leu Val Cys Gly Gly Arg Ser Leu Ser  
           20                  25                  30  
 Trp Val Ala Leu Gly Glu Asp Tyr Leu Gly Thr Pro Ile Leu Ile Pro  
           35                  40                  45  
 Asn Ile His Gln Thr Cys Pro His Pro Pro Leu Trp Glu Leu Val Pro  
           50                  55                  60  
 Glu His Pro Cys Arg Leu Val Leu Ile Phe Ser Leu Cys Glu His Thr  
   65                  70                  75                  80  
 His Ile Arg

<210> 1013  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

<400> 1013  
 Met Ser Ile Leu Thr Met Ile Ser Ser Trp Pro Phe Ser Arg Val Val  
   1                  5                  10                  15  
 Arg Phe Trp Phe Leu His Gln Met Val Leu Asp Leu Cys Leu Gly Gln  
           20                  25                  30  
 Gly Val Pro Gln Gln Asn Leu Glu Asn Pro Arg Glu Arg Lys Ser Phe  
           35                  40                  45  
 Leu Leu Phe Val Arg Asn Leu Ile Ile Asp Ser Ser Leu Lys Ile Leu  
           50                  55                  60  
 Ser Gln Glu Pro Ser Asn Leu Trp Gln Arg Ile Pro Lys Met Met Thr  
   65                  70                  75                  80  
 Thr

<210> 1014  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 1014



Met Phe Lys Arg Met Cys Phe Phe Phe Gln Val Phe Leu Pro Leu Ala  
 1 5 10 15  
 Cys Thr Glu Leu Leu Trp Lys Gly Ala Pro Cys Arg His Ile Phe Gln  
 20 25 30  
 Thr Gly Pro Asp Leu Leu Val Thr Gln Arg Cys Val His Ser Leu Leu  
 35 40 45  
 Leu Gly Tyr Leu Ile Ser Ile Phe  
 50 55

<210> 1015  
 <211> 88  
 <212> PRT  
 <213> Homo sapiens

<400> 1015  
 Met Trp Ala Val Leu Pro Ala Trp Phe Pro Phe Pro Gly Thr Cys His  
 1 5 10 15  
 Cys Leu Pro Val Ser Leu Arg Gly His Phe Trp Glu Val Arg Pro Trp  
 20 25 30  
 Pro Pro Gly Pro Leu Phe Arg Ser Glu Ala Pro Thr Cys Leu Gly Ser  
 35 40 45  
 Gly Ser Ser Gly Val Arg Pro Cys Pro Pro Gln Asp Ile Pro Ser Lys  
 50 55 60  
 Pro Ala Met Ser Gly Asp Gly Pro Leu Pro Gly Lys Val Leu Phe Leu  
 65 70 75 80  
 Leu Val Thr Glu Lys Asn Leu Pro  
 85

<210> 1016  
 <211> 319  
 <212> PRT  
 <213> Homo sapiens

<400> 1016  
 Met Ser Trp Cys Cys Leu Trp Leu Cys Leu Ser Ser Val Gly Arg Thr  
 1 5 10 15  
 Gly Ser Ala Gly Pro Ser Leu Pro Phe Ser Glu Leu Cys Ser Leu Gly  
 20 25 30  
 Leu Leu Arg Leu Arg Pro Val Phe Ser Pro Leu His Ser Gly Pro Gly  
 35 40 45  
 Lys Pro Ala Gln Phe Leu Ala Gly Glu Ala Glu Glu Val Asn Ala Phe  
 50 55 60

Ala Leu Gly Phe Leu Ser Thr Ser Ser Gly Val Ser Gly Glu Asp Glu  
 65 70 75 80  
 Val Glu Pro Leu His Asp Gly Val Glu Glu Ala Glu Lys Lys Met Glu  
 85 90 95  
 Glu Glu Gly Val Ser Val Ser Glu Met Glu Ala Thr Gly Ala Gln Gly  
 100 105 110  
 Pro Ser Arg Val Glu Glu Ala Glu Gly His Thr Glu Val Thr Glu Ala  
 115 120 125  
 Glu Gly Ser Gln Gly Thr Ala Glu Ala Asp Gly Pro Gly Ala Ser Ser  
 130 135 140  
 Gly Asp Glu Asp Ala Ser Gly Arg Ala Ala Ser Pro Glu Ser Ala Ser  
 145 150 155 160  
 Ser Thr Pro Glu Ser Leu Gln Ala Arg Arg His His Gln Phe Leu Glu  
 165 170 175  
 Pro Ala Pro Ala Pro Gly Ala Ala Val Leu Ser Ser Glu Pro Ala Glu  
 180 185 190  
 Pro Leu Leu Val Arg His Pro Pro Arg Pro Arg Thr Thr Gly Pro Arg  
 195 200 205  
 Pro Arg Gln Asp Pro His Lys Ala Gly Leu Ser His Tyr Val Lys Leu  
 210 215 220  
 Phe Ser Phe Tyr Ala Lys Met Pro Met Glu Arg Lys Ala Leu Glu Met  
 225 230 235 240  
 Val Glu Lys Cys Leu Asp Lys Tyr Phe Gln His Leu Cys Asp Asp Leu  
 245 250 255  
 Glu Val Phe Ala Ala His Ala Gly Arg Lys Thr Val Lys Pro Glu Asp  
 260 265 270  
 Leu Glu Leu Leu Met Arg Arg Gln Gly Leu Val Thr Asp Gln Val Ser  
 275 280 285  
 Leu His Val Leu Val Glu Arg His Leu Pro Leu Glu Tyr Arg Gln Leu  
 290 295 300  
 Leu Ile Pro Cys Ala Tyr Ser Gly Asn Ser Val Phe Pro Ala Gln  
 305 310 315

<210> 1017  
 <211> 89  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1017

Met Phe Lys Asp Tyr Pro Pro Ala Ile Lys Pro Ser Tyr Asp Val Leu  
 1 5 10 15  
 Leu Leu Leu Leu Leu Val Leu Leu Leu Gln Ala Gly Leu Asn Thr  
 20 25 30  
 Gly Thr Ala Ile Gln Cys Val Arg Phe Lys Val Ser Ala Arg Leu Gln  
 35 40 45  
 Gly Ala Ser Trp Asp Thr Gln Asn Gly Pro Gln Glu Arg Leu Ala Gly  
 50 55 60  
 Glu Val Ala Arg Ser Pro Leu Lys Glu Phe Asp Lys Glu Lys Ala Trp  
 65 70 75 80  
 Arg Ala Val Val Val Gln Met Ala Gln  
 85

<210> 1018  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 1018  
 Met Phe Ser Ser Lys Ser Leu Leu Val Leu Pro Phe Cys Phe Arg Ser  
 1 5 10 15  
 Ala Ala His Leu Glu Leu Ser Val Trp Cys Val Cys Gly Val Arg  
 20 25 30

<210> 1019  
 <211> 187  
 <212> PRT  
 <213> Homo sapiens

<400> 1019  
 Met Ala Cys Lys Gly Leu Leu Gln Gln Val Gln Gly Pro Arg Leu Pro  
 1 5 10 15  
 Trp Thr Arg Leu Leu Leu Leu Val Phe Ala Val Gly Phe Leu  
 20 25 30  
 Cys His Asp Leu Pro Val Thr Gln Leu Leu Pro Gly Trp Leu Gly Glu  
 35 40 45  
 Thr Leu Pro Leu Trp Gly Ser His Leu Leu Thr Val Val Arg Pro Ser  
 50 55 60  
 Leu Gln Leu Ala Trp Ala His Thr Asn Ala Thr Val Ser Phe Leu Ser  
 65 70 75 80  
 Ala His Cys Ala Ser His Leu Ala Trp Phe Gly Asp Ser Leu Thr Ser  
 85 90 95

Leu Ser Gln Arg Leu Gln Ile Gln Leu Pro Asp Ser Val Asn Gln Leu  
 100 105 110  
 Leu Arg Tyr Leu Arg Glu Leu Pro Leu Leu Phe His Gln Asn Val Leu  
 115 120 125  
 Leu Pro Leu Trp His Leu Leu Leu Glu Ala Leu Ala Trp Ala Gln Glu  
 130 135 140  
 His Cys His Glu Ala Cys Arg Gly Glu Val Thr Trp Asp Cys Met Lys  
 145 150 155 160  
 Thr Gln Leu Ser Glu Ala Val His Trp Thr Trp Leu Cys Tyr Arg Thr  
 165 170 175  
 Leu Gln Trp Leu Ser Trp Thr Gly His Leu Pro  
 180 185

<210> 1020  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 1020  
 Met Tyr Leu Met Ser Phe Ser Ile His Phe Val Lys Ile Ile Cys Met  
 1 5 10 15  
 Cys Thr Ile Leu Val Leu Ser Pro Pro Val Leu Leu Lys Tyr Gln Asp  
 20 25 30  
 Ser Thr Pro Arg Pro Leu Trp Ser Gln Cys Lys Ile Pro Ile Asn Tyr  
 35 40 45  
 Leu Lys Gly Lys  
 50

<210> 1021  
 <211> 106  
 <212> PRT  
 <213> Homo sapiens

<400> 1021  
 Met Pro Gly Val Leu Gly Ala Leu Leu Gly Val Leu Val Ala Gly Leu  
 1 5 10 15  
 Ala Thr His Glu Ala Tyr Gly Asp Gly Leu Glu Ser Val Phe Pro Leu  
 20 25 30  
 Ile Ala Glu Gly Gln Arg Ser Ala Thr Ser Gln Ala Met His Gln Leu  
 35 40 45  
 Phe Gly Leu Phe Val Thr Leu Met Phe Ala Ser Val Gly Gly Gly Leu

50                      55                      60  
 Gly Gly Ile Ile Leu Val Leu Cys Leu Leu Asp Pro Cys Ala Leu Trp  
 65                      70                      75                      80  
 His Trp Val Ala Pro Ser Ser Met Val Gly Gly Arg Glu Ala Ser Gln  
 85                      90                      95  
 Ile Leu Pro Tyr His His Gln Gly Ser Cys  
 100                      105

<210> 1022  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (23)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1022  
 Met Ala Gln His His Leu Leu Ser Ile Leu Leu Ala Ile Leu Ser Cys  
 1                      5                      10                      15  
 Ser Ser Gln Pro Arg Gln Xaa Arg Gly Ser Gly Ala Leu Pro Cys Glu  
 20                      25                      30  
 Val Cys Ser Ala Val Leu Leu Thr Cys Leu Arg Lys Ile Ser Gly Ser  
 35                      40                      45  
 Leu Cys Val  
 50

<210> 1023  
 <211> 97  
 <212> PRT  
 <213> Homo sapiens

<400> 1023  
 Met Ala Tyr Phe Lys Val Cys Val Ile Ile Trp Phe Gln Gln Phe Cys  
 1                      5                      10                      15  
 Val Glu Glu Thr Ser Ile Ile Lys Asn Val Arg Met Leu Thr Ser Glu  
 20                      25                      30  
 Phe Gln Asn Ser Tyr Ala Thr Pro Val Ser Gly Leu Leu Pro Gly Ala  
 35                      40                      45  
 Val Ala Trp Arg Gly Gly Ala Val Tyr Gly Trp Val Arg His Ala Met  
 50                      55                      60  
 Gln Val Leu Gln Lys Glu Pro Thr Gln Pro Ser Ser Phe Leu Pro Pro



<400> 1026  
 Met Leu Arg Gly Trp Ala Leu Ser Thr Phe Leu Val Cys Ile Leu Gln  
 1 5 10 15  
 Trp Val Arg Ser Leu Thr Ile Arg Leu Ala Ser Ala Leu Ser Val Arg  
 20 25 30  
 Gly Pro Ser Ser Ile Pro Ala Ser Leu Ala Ile Ile Tyr Thr Leu Phe  
 35 40 45  
 Ile Phe Ser Phe Lys Phe Leu Lys Ile Val Lys Ser Ile Tyr Ile  
 50 55 60

<210> 1027  
 <211> 169  
 <212> PRT  
 <213> Homo sapiens

<400> 1027  
 Met Leu Ala Gly Ala Gly Arg Pro Gly Leu Pro Gln Gly Arg His Leu  
 1 5 10 15  
 Cys Trp Leu Leu Cys Ala Phe Thr Leu Lys Leu Cys Gln Ala Glu Ala  
 20 25 30  
 Pro Val Gln Glu Glu Lys Leu Ser Ala Ser Thr Ser Asn Leu Pro Cys  
 35 40 45  
 Trp Leu Val Glu Glu Phe Val Val Ala Glu Glu Cys Ser Pro Cys Ser  
 50 55 60  
 Asn Phe Arg Ala Lys Thr Thr Pro Glu Cys Gly Pro Thr Gly Tyr Val  
 65 70 75 80  
 Glu Lys Ile Thr Cys Ser Ser Ser Lys Arg Asn Glu Phe Lys Ser Leu  
 85 90 95  
 Pro Leu Ser Phe Asp Gly Thr Thr Leu Ile Leu Glu Val Arg Arg Gly  
 100 105 110  
 Cys Arg Val Cys Gly Pro Asp Leu Arg Leu Ser Cys His His Ser Ser  
 115 120 125  
 Ala Thr Ile Gly Gln Lys Gly Ser Gly Lys Gly Pro Glu Ala Asn Arg  
 130 135 140  
 Val His Ile Ala Thr Phe His Pro Cys Ile Leu Gly Leu Arg Asp Pro  
 145 150 155 160  
 Ile Ser Asp Ser Glu Ser Glu Met Asp  
 165

<210> 1028

<211> 88  
 <212> PRT  
 <213> Homo sapiens

<400> 1028  
 Met Ala Ile Ile Ser Phe Glu Leu Leu Phe Leu Met Asn Leu Pro Thr  
   1                  5                  10                  15  
 Val Asn Ser Ser Asn Phe Lys Leu Ile Ile Pro Glu Asp Val Thr Leu  
                   20                  25                  30  
 Ser Phe Val Ser His Leu Asp Ile Thr Val Asn His Phe Val Phe Leu  
           35                  40                  45  
 Ser Thr Phe Glu Leu Ala Gly Val Ile Glu Gly Lys Pro Leu Pro Asp  
       50                  55                  60  
 Ser Lys Ser Asp Leu Cys Pro Ile Leu Gly Gln Leu Trp Phe His Ile  
   65                  70                  75                  80  
 Leu Leu Phe Phe Ile Phe Trp Val  
                   85

<210> 1029  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 1029  
 Met Pro Thr Leu Gly Asp Ala Leu Ile Leu Tyr Leu His Leu Val Leu  
   1                  5                  10                  15  
 Gly Val Ala Gly Val Leu Gln Pro Pro Gly Pro Arg Pro Ser Gln Ala  
                   20                  25                  30  
 Leu Gly Pro Thr Gly Asp Arg Ala Pro Gly Lys Trp Asn Arg Ser  
       35                  40                  45

<210> 1030  
 <211> 123  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (71)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1030  
 Met Thr His Trp Ser Gly Cys Ala Ala Leu Tyr Leu Ile Phe Leu Ser  
   1                  5                  10                  15  
 Leu Lys Leu Ala Phe Gln Ala Gly Ala Gly Arg Gly Ala Gln Val Gly



20                      25                      30  
 Ser Val Leu Pro Pro Ser Gly Gly Ala Val Val Val Asp Gln Ile Leu  
                     35                      40                      45  
 Leu Pro Pro Val Cys Thr Asn Ile Phe Leu Ser Ser Ser Pro Ser Glu  
                     50                      55                      60  
 Val Tyr Trp Asn Met Ser Xaa Thr Ile Met Met Val Val Lys Met Met  
                     65                      70                      75                      80  
 Met Met Trp Val Ile Leu Ala Thr Leu Leu Gly Pro Ser Ser Pro Gln  
                     85                      90                      95  
 Phe Val Ala Gln Ser Thr Leu His Thr Phe Ser Leu Val Leu Ile Lys  
                     100                      105                      110  
 Pro Pro Phe Arg Val Gly Phe Ser Val Leu Phe  
                     115                      120

<210> 1031  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 1031  
 Met Ser Ala Leu Ser Phe Thr Ser Tyr Phe Leu Leu Leu Leu Arg Val  
                     1                      5                      10                      15  
 Lys Pro Val Glu Val Ser Gly Ser Ile Pro His Pro Glu Gln Pro Asn  
                     20                      25                      30  
 Val Leu Cys Leu Val Leu Pro Thr Phe Gly Tyr  
                     35                      40

<210> 1032  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 1032  
 Met Asp Leu Leu Gln Val Cys Phe Phe Leu Phe Phe Ser His Leu Trp  
                     1                      5                      10                      15  
 Ser Trp Thr Glu Gly Lys Leu Pro Cys Asn Phe Pro Gly Pro Val Gly  
                     20                      25                      30  
 Arg Val Phe Leu Ser Pro Phe Gln Met Leu Gly Phe Lys Gln  
                     35                      40                      45

<210> 1033

<211> 215  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (83)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (141)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1033  
 Met Tyr Gly Lys Ser Ser Thr Arg Ala Val Leu Leu Leu Leu Gly Ile  
   1                  5                  10                  15  
 Gln Leu Thr Ala Leu Trp Pro Ile Ala Ala Val Glu Ile Tyr Thr Ser  
           20                  25                  30  
 Arg Val Leu Glu Ala Val Asn Gly Thr Asp Ala Arg Leu Lys Cys Thr  
           35                  40                  45  
 Phe Ser Ser Phe Ala Pro Val Gly Asp Ala Leu Thr Val Thr Trp Asn  
   50                  55                  60  
 Phe Arg Pro Leu Asp Gly Gly Pro Glu Gln Phe Val Phe Tyr Tyr His  
   65                  70                  75                  80  
 Ile Asp Xaa Phe Gln Pro Met Ser Gly Arg Phe Lys Asp Arg Val Ser  
           85                  90                  95  
 Trp Asp Gly Asn Pro Glu Arg Tyr Asp Ala Ser Ile Leu Leu Trp Lys  
           100                  105                  110  
 Leu Gln Phe Asp Asp Asn Gly Thr Tyr Thr Cys Gln Val Lys Asn Pro  
   115                  120                  125  
 Pro Asp Val Asp Gly Val Ile Gly Asp Ile Arg Leu Xaa Val Val His  
   130                  135                  140  
 Thr Val Arg Phe Ser Glu Ile His Phe Leu Ala Leu Ala Ile Gly Ser  
   145                  150                  155                  160  
 Ala Cys Ala Leu Met Ile Ile Ile Val Ile Val Val Val Leu Phe Gln  
           165                  170                  175  
 His Tyr Arg Lys Lys Arg Trp Ala Glu Arg Ala His Lys Val Val Glu  
           180                  185                  190  
 Ile Lys Ser Lys Glu Glu Glu Arg Leu Asn Gln Glu Lys Lys Val Ser  
   195                  200                  205  
 Val Tyr Leu Glu Asp Thr Asp  
   210                  215

<210> 1034  
 <211> 158  
 <212> PRT  
 <213> Homo sapiens

<400> 1034  
 Met Thr Thr Met Ala Pro Val Gly Leu Gln Thr Arg Ile Pro Trp Leu  
 1 5 10 15  
 Leu Cys Leu Gly Pro Pro Pro Gly Pro Cys Cys Pro La Ser Pro Thr  
 20 25 30  
 Ser Thr Leu Pro His Thr Pro Thr Ala Arg Ser Leu His Pro Thr Met  
 35 40 45  
 Ser Phe His Leu Thr Pro Met Val Gly Ala Val Pro Ala Ala Ser Id  
 50 55 60  
 Val Arg Ala Ala Gly Ala Val Gly Arg His Gly Val Met Gly Gly Gln  
 65 70 75 80  
 Gly Ala Arg Gly Gly Pro Arg Ser Gly Pro Pro Ser Pro Ser Pro Ala  
 85 90 95  
 Val Ala Val Ser Leu Ser Pro Pro Ala Glu Gly Ala Ala Phe Gly Gly  
 100 105 110  
 Val Gly Lys Gln Val Gly Leu Ala Met Gly Ala Leu Leu His Pro Glu  
 115 120 125  
 Ala Gln Leu Gly Val Pro Leu Ile Ser Glu Pro Thr Gln Gly Ser Ile  
 130 135 140  
 Pro Met Asp Arg Pro Leu Ala Trp Pro Ser Pro Thr Thr Pro  
 145 150 155

<210> 1035  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 1035  
 Met His Leu Phe Leu Phe Ile Trp Ala Phe Gly Leu Pro Leu His Ile  
 1 5 10 15  
 Ser Arg Asp Leu Ala Phe Phe Phe Leu Leu Tyr Ph Leu Phe Phe Tyr  
 20 25 30  
 Leu Leu Cys Val Leu Leu  
 35

<210> 1036  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 1036  
 Met Leu Tyr Trp Gly Asn Val Ala Leu Val Leu Pro Thr Pro Tyr Leu  
 1 5 10 15  
 His Leu Ser Leu Thr Leu Leu Leu Ser Pro Glu Trp Leu Gly Glu Met  
 20 25 30  
 Gly Arg Gly Leu Pro Trp Pro Gly His Leu Val Ala Ala Trp Leu Asp  
 35 40 45  
 His Ile Ala Asn Glu Leu Gly Arg Gly Ala Ile Phe  
 50 55 60

<210> 1037  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<400> 1037  
 Met Asn Ala Ser Cys Ser Leu Ala His Phe Glu His Ser Gly Met Ser  
 1 5 10 15  
 Val Leu Leu Val His Leu Phe Ile Ile Val Ser Thr Val Pro Ser Cys  
 20 25 30  
 Phe Lys Lys Tyr Met Ala Phe Ile Ile Tyr Pro Ala Phe Ser Cys His  
 35 40 45  
 Phe Asn Lys Ser Met Cys Leu Ile Gln Leu Leu His Ser Ser Gln Lys  
 50 55 60

<210> 1038  
 <211> 79  
 <212> PRT  
 <213> Homo sapiens

<400> 1038  
 Met Ala Cys Leu Gly Gly Leu Leu Gly Ile Ile Gly Val Ile Cys Leu  
 1 5 10 15  
 Ile Ser Cys Leu Ser Pro Glu Met Asn Cys Asp Gly Gly His Ser Tyr  
 20 25 30  
 Val Arg Asn Tyr Leu Gln Lys Pro Thr Phe Ala Leu Gly Glu Leu Tyr  
 35 40 45

Pro Pro Leu Ile Asn Leu Trp Glu Ala Gly Lys Glu Lys Ser Thr Ser  
 50 55 60

Leu Lys Val Lys Ala Thr Val Ile Gly Leu Pro Thr Asn Met Ser  
 65 70 75

<210> 1039  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 1039  
 Met Phe Tyr Pro Pro Cys Pro Phe Phe Pro Gln Leu Cys Phe Cys Ile  
 1 5 10 15  
 Phe Phe Leu Gly Lys Cys Lys Leu Ser Leu Ser Phe Met Thr Cys Glu  
 20 25 30  
 Ile Ser Val Ser Leu Glu Phe Val Arg Arg Arg Gly Asn His Ala  
 35 40 45

<210> 1040  
 <211> 343  
 <212> PRT  
 <213> Homo sapiens

<400> 1040  
 Met Arg Ala Pro Phe Asn Thr Leu Phe Gly Arg Leu Phe Gly Leu Leu  
 1 5 10 15  
 Leu Val Ala Ile Val Leu Ala His Val Leu Ala Phe Phe Trp Phe His  
 20 25 30  
 His Tyr Gly Pro Pro Pro Pro Arg Ala Ala Phe Val Glu Gln Pro  
 35 40 45  
 Asp Gly Ser Leu Thr Pro Leu Arg Lys Ala Pro Arg Pro Trp Phe Gly  
 50 55 60  
 Gly Pro Val Val Pro Leu Thr Phe Gln Phe Ile Ser Leu Ile Ile Ala  
 65 70 75 80  
 Ala Trp Tyr Gly Ala Lys Leu Leu Ser Arg Pro Ile Gln Arg Leu Ser  
 85 90 95  
 Ala Ala Ala Glu Arg Leu Ser Val Asp Leu Asp Ser Pro Pro Leu Val  
 100 105 110  
 Glu Thr Gly Pro Arg Glu Ala Arg Gln Ala Ala Ser Thr Phe Asn Leu  
 115 120 125  
 Met Gln Lys Arg Ile Arg Glu Gln Val Ser Gln Arg Ala Arg Met Leu

130                                      135                                      140  
 Gly Ala Val Ser His Asp Leu Arg Thr Pro Leu Ser Arg Leu Lys Leu  
 145                                      150                                      155                                      160  
 Arg Leu Glu Gln Ile Glu Asp Pro Lys Leu Gln Gly Gln Met Arg Gln  
                                     165                                      170                                      175  
 Asp Leu Asp Asp Met Ile Gly Met Leu Asp Ala Thr Leu Ser Tyr Leu  
                                     180                                      185                                      190  
 His Glu Gln Arg Thr Ser Glu Thr Arg His Trp Leu Asp Val Gln Ala  
                                     195                                      200                                      205  
 Leu Val Glu Ser Leu Ser Glu Asn Ala Gln Asp Gln Gly Arg Asp Val  
                                     210                                      215                                      220  
 Gln Phe Ala Gly Thr Cys Thr Pro Leu Gln Val Gln Pro Met Ala Leu  
 225                                      230                                      235                                      240  
 Arg Ser Cys Leu Asn Asn Leu Ile Asp Asn Ala Leu Arg Tyr Ala Gly  
                                     245                                      250                                      255  
 Thr Ala Arg Val Glu Leu Ala Asp Ser Arg Gly Ala Leu Val Ile Arg  
                                     260                                      265                                      270  
 Val Ile Asp His Gly Pro Gly Ile Ala Ala Asp Lys Arg Glu Ala Val  
                                     275                                      280                                      285  
 Phe Glu Pro Phe Phe Arg Leu Glu Gly Ser Arg Asn Arg Asn Ser Gly  
                                     290                                      295                                      300  
 Gly Val Gly Leu Gly Met Thr Ile Ala Arg Glu Ala Val Glu Arg Leu  
 305                                      310                                      315                                      320  
 Gly Gly His Leu Ser Leu Glu Asp Thr Pro Gly Gly Gly Leu Thr Ala  
                                     325                                      330                                      335  
 Val Met Trp Leu Pro Arg Val  
                                     340

<210> 1041  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 1041  
 Met Gly Leu Phe Leu Phe Leu Val Ser Ser  
   1                                    5                                    10

<210> 1042  
 <211> 40  
 <212> PRT

<213> Homo sapiens

<400> 1042  
Met Ile Ile Leu His Ile Val Val Cys Leu Phe Thr Ile Ser Ile Ile  
1 5 10 15  
Glu Glu Gln Lys Glu Glu Ile Leu Cys Ser Thr Lys Ser Gln Ala Glu  
20 25 30  
Lys Thr Val Thr His Ile Glu Gln  
35 40

<210> 1043  
<211> 65  
<212> PRT  
<213> Homo sapiens

<400> 1043  
Met Leu Ser Pro Lys Ser Pro Arg Met Leu Leu Pro Cys Leu Leu Gln  
1 5 10 15  
Pro Leu Val Val Ala Asn Ile Pro Arg Val Pro Trp Leu Ala Asp Glu  
20 25 30  
Ser Leu Asn Pro Thr Pro Ile Ile Thr Trp Gln Ser Pro Cys Val Ala  
35 40 45  
Gln Leu Cys Pro Asn Phe Pro Phe Pro Thr Arg Thr Leu Val Thr Gly  
50 55 60  
Leu  
65

<210> 1044  
<211> 45  
<212> PRT  
<213> Homo sapiens

<400> 1044  
Met Gln Lys Lys Lys Leu Val Cys Tyr Leu Met Leu Arg Gln Tyr Phe  
1 5 10 15  
Phe Leu Val Val Val Ser Leu Pro Trp Pro Cys Val Leu Phe Gln Met  
20 25 30  
His Tyr Pro Arg Thr Val Thr Pro Thr Leu Thr Glu Tyr  
35 40 45

<210> 1045  
<211> 274  
<212> PRT

<213> Homo sapiens

<400> 1045

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Met Phe Tyr Ile Ile Gly Gly Val Ala Thr Leu Leu Leu Ile Leu Val
 1           5           10           15

Ile Ile Val Phe Lys Glu Lys Pro Lys Tyr Pro Pro Ser Arg Ala Gln
      20           25           30

Ser Leu Ser Tyr Ala Leu Thr Ser Pro Asp Ala Ser Tyr Leu Gly Ser
      35           40           45

Ile Ala Arg Leu Phe Lys Asn Leu Asn Phe Val Leu Leu Val Ile Thr
      50           55           60

Tyr Gly Leu Asn Ala Gly Ala Phe Tyr Ala Leu Ser Thr Leu Leu Asn
      65           70           75           80

Arg Met Val Ile Trp His Tyr Pro Gly Glu Glu Val Asn Ala Gly Arg
      85           90           95

Ile Gly Leu Thr Ile Val Ile Ala Gly Met Leu Gly Ala Val Ile Ser
      100          105          110

Gly Ile Trp Leu Asp Arg Ser Lys Thr Tyr Lys Glu Thr Thr Leu Val
      115          120          125

Val Tyr Ile Met Thr Leu Val Gly Met Val Val Tyr Thr Phe Thr Leu
      130          135          140

Asn Leu Gly His Leu Trp Val Val Phe Ile Thr Ala Gly Thr Met Gly
      145          150          155          160

Phe Phe Met Thr Gly Tyr Leu Pro Leu Gly Phe Glu Phe Ala Val Glu
      165          170          175

Leu Thr Tyr Pro Glu Ser Glu Gly Ile Ser Ser Gly Leu Leu Asn Ile
      180          185          190

Ser Ala Gln Val Phe Gly Ile Ile Phe Thr Ile Ser Gln Gly Gln Ile
      195          200          205

Ile Asp Asn Tyr Gly Thr Lys Pro Gly Asn Ile Phe Leu Cys Val Phe
      210          215          220

Leu Thr Leu Gly Ala Ala Leu Thr Ala Phe Ile Lys Ala Asp Leu Arg
      225          230          235          240

Arg Gln Lys Ala Asn Lys Glu Thr Leu Glu Asn Lys Leu Gln Glu Glu
      245          250          255

Glu Glu Glu Ser Asn Thr Ser Lys Val Pro Thr Ala Val Ser Glu Asp
      260          265          270

His Leu
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<210> 1046  
 <211> 146  
 <212> PRT  
 <213> Homo sapiens

<400> 1046  
 Met Trp Lys Leu Trp Arg Ala Glu Glu Gly Ala Ala Ala Leu Gly Gly  
     1                    5                    10                    15  
 Ala Leu Phe Leu Leu Leu Phe Ala Leu Gly Val Arg Gln Leu Leu Lys  
                     20                    25                    30  
 Gln Arg Arg Pro Met Gly Phe Pro Pro Gly Pro Pro Gly Leu Pro Phe  
                     35                    40                    45  
 Ile Gly Asn Ile Tyr Ser Leu Ala Ala Ser Ser Glu Leu Pro His Val  
     50                    55                    60  
 Tyr Met Arg Lys Gln Ser Gln Val Tyr Gly Glu Val Gln Pro Arg Arg  
     65                    70                    75                    80  
 Ala Pro Gly Arg Glu Gly Arg Gln Ala Gly Pro Gly Trp Pro Gly Pro  
                     85                    90                    95  
 Ser Trp Leu Asp Leu Trp Pro Pro Leu Gly Arg Leu Val Gly Thr Ser  
                     100                    105                    110  
 Pro Cys Ala Gly Cys Pro Leu Arg Asp Thr Arg Phe Pro Gly Leu Glu  
                     115                    120                    125  
 Gly Arg Ser Pro Arg Arg Arg Ala Pro Leu Gln Gly Glu Pro Arg Pro  
     130                    135                    140  
 Cys Arg  
 145

<210> 1047  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (62)  
 <223> Xaa equals any of the naturally occurring amino acids  
 <220>  
 <221> SITE  
 <222> (63)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
 <400> 1047  
 Met Gly Ala Ala Lys Val Trp Gly Glu Val Gly Arg Trp Leu Val Ile

1	5	10	15
Ala Leu Ile Gln Leu Ala Lys Ala Val Leu Arg Met Leu Leu Leu Leu	20	25	30
Trp Phe Lys Ala Gly Leu Gln Thr Ser Pro Pro Ile Val Pro Leu Asp	35	40	45
Arg Glu Thr Arg His Ser Pro Arg Met Val Thr Thr Ala Xaa Xaa Thr	50	55	60
Met Ser Ser Pro Thr Trp Gly Ser Gly Gln Thr Gly Trp Cys Glu Pro	65	70	75
Ser Arg Thr Arg Arg Pro Cys Thr Pro Gly Thr Gly Glu Leu Pro Ser	85	90	95
Ser Gly Arg Asp Gly Ser Ser Ser Ile Thr Arg Ser	100	105	

<210> 1048  
 <211> 168  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (60)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (64)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (132)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1048
Met Val Thr Phe Ala Ser Ser Thr Leu Trp Ile Ala Ala Phe Ser Tyr
1 5 10 15
Met Met Val Trp Met Val Thr Ile Ile Gly Tyr Thr Leu Gly Ile Pro
20 25 30
Asp Val Ile Met Gly Ile Thr Phe Leu Ala Ala Gly Th Ser Val Pro
35 40 45
Asp Cys Met Ala Ser Leu Ile Val Ala Arg Gln Xaa Met Gly Asp Xaa
50 55 60
Ala Val Ser Asn Ser Ile Gly Ser Asn Val Phe Asp Ile Leu Ile Gly
65 70 75 80

Leu Gly Leu Pro Trp Ala Leu Gln Thr Leu Ala Val Asp Tyr Gly Ser  
 85 90 95  
 Tyr Ile Arg Leu Asn Ser Arg Gly Leu Ile Tyr Ser Val Gly Leu Leu  
 100 105 110  
 Leu Ala Ser Val Phe Val Thr Val Phe Gly Val His Leu Asn Lys Trp  
 115 120 125  
 Gln Leu Asp Xaa Lys Leu Gly Cys Gly Cys Leu Leu Leu Tyr Gly Val  
 130 135 140  
 Phe Leu Cys Phe Ser Ile Met Thr Glu Phe Asn Val Phe Thr Phe Val  
 145 150 155 160  
 Asn Leu Pro Met Cys Gly Asp His  
 165

<210> 1049  
 <211> 315  
 <212> PRT  
 <213> Homo sapiens

<400> 1049  
 Met Glu Ser Leu Tyr Asp Leu Trp Glu Phe Tyr Leu Pro Tyr Leu Tyr  
 1 5 10 15  
 Ser Cys Ile Ser Leu Met Gly Cys Leu Leu Leu Leu Cys Thr Pro  
 20 25 30  
 Val Gly Leu Ser Arg Met Phe Thr Val Met Gly Gln Leu Leu Val Lys  
 35 40 45  
 Pro Thr Ile Leu Glu Asp Leu Asp Glu Gln Ile Tyr Ile Ile Thr Leu  
 50 55 60  
 Glu Glu Glu Ala Leu Gln Arg Arg Leu Asn Gly Leu Ser Ser Ser Val  
 65 70 75 80  
 Glu Tyr Asn Ile Met Glu Leu Glu Gln Glu Leu Glu Asn Val Lys Thr  
 85 90 95  
 Leu Lys Thr Lys Leu Asp Pro Trp Ser Ser Phe Ser Val Leu Gln Ser  
 100 105 110  
 Pro Val Trp His Phe Ala Ala Gln Thr Pro Ala Asp Ile Val Ser Pro  
 115 120 125  
 Asp Ser His Phe Met Leu Ser Thr Gln Gly Met Ser Trp Ala Gln Leu  
 130 135 140  
 Val Phe Leu Leu Pro Ala Ser Arg Pro Gly Asn Ser Gln Asp Lys Arg  
 145 150 155 160

Arg Lys Lys Ala Ser Ala Trp Glu Arg Asn Leu Val Tyr Pro Ala Val  
 165 170 175

Met Val Leu Leu Leu Ile Glu Thr Ser Ile Ser Val Leu Leu Val Ala  
 180 185 190

Cys Asn Ile Leu Cys Leu Leu Val Asp Glu Thr Ala Met Pro Lys Gly  
 195 200 205

Thr Arg Gly Pro Gly Ile Gly Asn Ala Ser Leu Ser Thr Phe Gly Phe  
 210 215 220

Val Gly Ala Ala Leu Glu Ile Ile Leu Ile Phe Tyr Leu Met Val Ser  
 225 230 235 240

Ser Val Val Gly Phe Tyr Ser Leu Arg Phe Phe Gly Asn Phe Thr Pro  
 245 250 255

Lys Lys Asp Asp Thr Thr Met Thr Lys Ile Ile Gly Asn Cys Val Ser  
 260 265 270

Ile Leu Val Leu Ser Ser Ala Leu Pro Val Met Ser Arg Thr Leu Gly  
 275 280 285

Leu His Lys Leu His Leu Pro Asn Thr Ser Arg Asp Ser Glu Thr Ala  
 290 295 300

Lys Pro Ser Val Asn Gly His Gln Lys Ala Leu  
 305 310 315

<210> 1050  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

<400> 1050  
 Met Asn Gln Leu Met Phe Gln Asp Leu Leu Cys Cys Leu Cys Leu Phe  
 1 5 10 15

Val Ile Gly Leu Ile Ser Leu Leu Arg Lys Thr Tyr Ser Cys Val Asn  
 20 25 30

Leu Cys Lys Val Met Leu Pro Val Lys Lys Tyr Ser Thr Val Ser Thr  
 35 40 45

Val Leu Cys Arg Asn Met Lys Leu Asn Gly Lys Asn Val Leu Met Phe  
 50 55 60

Val Val Met Leu Leu Gly Gln Trp Met Gly Lys Leu Pro Lys Leu Ser  
 65 70 75 80

Pro

<210> 1051  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens

<400> 1051  
 Met Val Val Asp Leu Phe Phe Tyr Leu Leu Cys Ile Phe Leu Val Leu  
 1 5 10 15  
 Trp Val Leu Glu Ala Met Ile Lys His Leu Met Tyr Ser Asp Met Ser  
 20 25 30  
 Ala Leu Ile Ala Ser Phe Ser Ser Phe Leu Asn Cys Ile His Tyr Phe  
 35 40 45  
 Gln Asn Arg Tyr Arg Tyr Ser Val Pro Pro Phe Glu Leu Leu Ala Cys  
 50 55 60  
 Ser Cys Phe Pro Leu Ser Pro Lys Gln Gly Phe Phe  
 65 70 75

<210> 1052  
 <211> 316  
 <212> PRT  
 <213> Homo sapiens

<400> 1052  
 Met Thr Gln Gly Lys Leu Ser Val Ala Asn Lys Ala Pro Gly Thr Glu  
 1 5 10 15  
 Gly Gln Gln Gln Val His Gly Glu Lys Lys Glu Ala Pro AlaVal Pro  
 20 25 30  
 Ser Ala Pro Pro Ser Tyr Glu Glu Ala Thr Ser Gly Glu Gly Met Lys  
 35 40 45  
 Ala Gly Ala Phe Pro Pro Ala Pro Thr Ala Val Pro Leu His Pro Ser  
 50 55 60  
 Trp Ala Tyr Val Asp Pro Ser Ser Ser Ser Tyr Asp Asn Gly Phe  
 65 70 75 80  
 Pro Thr Gly Asp His Glu Leu Phe Thr Thr Phe Ser Trp Asp Asp Gln  
 85 90 95  
 Lys Val Arg Arg Val Phe Val Arg Lys Val Tyr Thr Ile Leu Leu Ile  
 100 105 110  
 Gln Leu Leu Val Thr Leu Ala Val Val Ala Leu Phe Thr Phe Cys Asp  
 115 120 125  
 Pro Val Lys Asp Tyr Val Gln Ala Asn Pro Gly Trp Tyr Trp Ala Ser  
 130 135 140

Tyr Ala Val Phe Phe Ala Thr Tyr Leu Thr Leu Ala Cys Cys Ser Gly  
 145 150 155 160  
 Pro Arg Arg His Phe Pro Trp Asn Leu Ile Leu Leu Thr Val Phe Thr  
 165 170 175  
 Leu Ser Met Ala Tyr Leu Thr Gly Met Leu Ser Ser Tyr Tyr Asn Thr  
 180 185 190  
 Thr Ser Val Leu Leu Cys Leu Gly Ile Thr Ala Leu Val Cys Leu Ser  
 195 200 205  
 Val Thr Val Phe Ser Phe Gln Thr Lys Phe Asp Phe Thr Ser Cys Gln  
 210 215 220  
 Gly Val Leu Phe Val Leu Leu Met Thr Leu Phe Phe Ser Gly Leu Ile  
 225 230 235 240  
 Leu Ala Ile Leu Leu Pro Phe Gln Tyr Val Pro Trp Leu His Ala Val  
 245 250 255  
 Tyr Ala Ala Leu Gly Ala Gly Val Phe Thr Leu Phe Leu Ala Leu Asp  
 260 265 270  
 Thr Gln Leu Leu Met Gly Asn Arg Arg His Ser Leu Ser Pro Glu Glu  
 275 280 285  
 Tyr Ile Phe Gly Ala Leu Asn Ile Tyr Leu Asp Ile Ile Tyr Ile Phe  
 290 295 300  
 Thr Phe Phe Leu Gln Leu Phe Gly Thr Asn Arg Glu  
 305 310 315

<210> 1053  
 <211> 612  
 <212> PRT  
 <213> Homo sapiens

<400> 1053  
 Met Ala Ala Ala Gly Arg Leu Pro Ser Ser Trp Ala Leu Phe Ser Pro  
 1 5 10 15  
 Leu Leu Ala Gly Leu Ala Leu Leu Gly Val Gly Pro Val Pro Ala Arg  
 20 25 30  
 Ala Leu His Asn Val Thr Ala Glu Leu Phe Gly Ala Glu Ala Trp Gly  
 35 40 45  
 Thr Leu Ala Ala Phe Gly Asp Leu Asn Ser Asp Lys Gln Thr Asp Leu  
 50 55 60  
 Phe Val Leu Arg Glu Arg Asn Asp Leu Ile Val Phe Leu Ala Asp Gln  
 65 70 75 80  
 Asn Ala Pro Tyr Phe Lys Pro Lys Val Lys Val Ser Phe Lys Asn His

					85					90					95
Ser	Ala	Leu	Ile	Thr	Ser	Val	Val	Pro	Gly	Asp	Tyr	Asp	Gly	Asp	Ser
			100					105					110		
Gln	Met	Asp	Val	Leu	Leu	Thr	Tyr	Leu	Pro	Lys	Asn	Tyr	Ala	Lys	Ser
		115					120					125			
Glu	Leu	Gly	Ala	Val	Ile	Phe	Trp	Gly	Gln	Asn	Gln	Thr	Leu	Asp	Pro
		130				135					140				
Asn	Asn	Met	Thr	Ile	Leu	Asn	Arg	Thr	Phe	Gln	Asp	Glu	Pro	Leu	Ile
145					150					155					160
Met	Asp	Phe	Asn	Gly	Asp	Leu	Ile	Pro	Asp	Ile	Phe	Gly	Ile	Thr	Asn
				165					170					175	
Glu	Ser	Asn	Gln	Pro	Gln	Ile	Leu	Leu	Gly	Gly	Asn	Leu	Ser	Trp	His
			180					185					190		
Pro	Ala	Leu	Thr	Thr	Thr	Ser	Lys	Met	Arg	Ile	Pro	His	Ser	His	Ala
		195					200					205			
Phe	Ile	Asp	Leu	Thr	Glu	Asp	Phe	Thr	Ala	Asp	Leu	Phe	Leu	Thr	Thr
		210				215					220				
Leu	Asn	Ala	Thr	Thr	Ser	Thr	Phe	Gh	Phe	Glu	Ile	Trp	Glu	Asn	Leu
225					230					235					240
Asp	Gly	Asn	Phe	Ser	Val	Ser	Thr	Ile	Leu	Glu	Lys	Pro	Gln	Asn	Met
				245					250					255	
Met	Val	Val	Gly	Gln	Ser	Ala	Phe	Ala	Asp	Phe	Asp	Gly	Asp	Gly	His
			260					265					270		
Met	Asp	His	Leu	Leu	Pro	Gly	Cys	Glu	Asp	Lys	Asn	Cys	Gln	Lys	Ser
		275					280					285			
Thr	Ile	Tyr	Leu	Val	Arg	Ser	Gly	Met	Lys	Gh	Trp	Val	Pro	Val	Leu
		290				295					300				
Gln	Asp	Phe	Ser	Asn	Lys	Gly	Thr	Leu	Trp	Gly	Phe	Val	Pro	Phe	Val
305					310					315					320
Asp	Glu	Gln	Gln	Pro	Thr	Glu	Ile	Pro	Ile	Pro	Ile	Th	Leu	His	Ile
				325					330					335	
Gly	Asp	Tyr	Asn	Met	Asp	Gly	Tyr	Pro	Asp	Ala	Leu	Val	Ile	Leu	Lys
			340					345					350		
Asn	Thr	Ser	Gly	Ser	Asn	Gln	Gln	Ala	Phe	Leu	Leu	Glu	As	Val	Pro
		355					360					365			
Cys	Asn	Asn	Ala	Ser	Cys	Glu	Glu	Ala	Arg	Arg	Met	Phe	Lys	Val	Tyr
		370				375					380				
Trp	Glu	Leu	Thr	Asp	Leu	Asn	Gln	Ile	Lys	Asp	Ala	Met	Val	Ala	Thr

385                      390                      395                      400  
 Phe Phe Asp Ile Tyr Glu Asp Gly Ile Leu Asp Ile Val Val Leu Ser  
                                  405                      410                      415  
 Lys Gly Tyr Thr Lys Asn Asp Phe Ala Ile His Thr Leu Lys Asn Asn  
                                  420                      425                      430  
 Phe Glu Ala Asp Ala Tyr Phe Val Lys Val Ile Val Leu Ser Gly Leu  
                                  435                      440                      445  
 Cys Ser Asn Asp Cys Pro Arg Lys Ile Thr Pro Phe Gly Val Asn Gln  
                                  450                      455                      460  
 Pro Gly Pro Tyr Ile Met Tyr Thr Thr Val Asp Ala Asn Gly Tyr Leu  
                                  465                      470                      475                      480  
 Lys Asn Gly Ser Ala Gly Gln Leu Ser Gln Ser Ala His Leu Ala Leu  
                                  485                      490                      495  
 Gln Leu Pro Tyr Asn Val Leu Gly Leu Gly Arg Ser Ala Asn Phe Leu  
                                  500                      505                      510  
 Asp His Leu Tyr Val Gly Ile Pro Arg Pro Ser Gly Glu Lys Ser Ile  
                                  515                      520                      525  
 Arg Lys Gln Glu Trp Thr Ala Ile Ile Pro Asn Ser Gln Leu Ile Val  
                                  530                      535                      540  
 Ile Pro Tyr Pro His Asn Val Pro Arg Ser Trp Ser Ala Lys Leu Tyr  
                                  545                      550                      555                      560  
 Leu Thr Pro Ser Asn Ile Val Leu Leu Thr Ala Ile Ala Leu Ile Gly  
                                  565                      570                      575  
 Val Cys Val Phe Ile Leu Ala Ile Ile Gly Ile Leu His Trp Gln Glu  
                                  580                      585                      590  
 Lys Lys Ala Asp Asp Arg Glu Lys Arg Gln Glu Ala His Arg Phe His  
                                  595                      600                      605  
 Phe Asp Ala Met  
                                  610

<210> 1054  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 1054  
 Met Ser His Ser Val Phe Ala His Tyr Ile Phe Asn Ile Leu Leu Leu  
   1                                  5                                  10                                  15  
 Leu Leu Leu Leu Leu Leu Ile Gly Phe Leu Tyr Ser Met Pro Phe Ile  
                                   20                                  25                                  30



Tyr Lys Asp Thr Lys Lys Thr His Val Cys Asn Phe Asn Asn Ile Phe  
 35 40 45

Pro Ile Leu  
 50

<210> 1055  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 1055  
 Met Leu Val Leu Met Thr Thr Cys Ile Leu Ala Ala Val Cys Val His  
 1 5 10 15

Thr Ala Gln Cys Ala Pro Asp Ser Arg Met Asp Asn Asp Cys Pro Ser  
 20 25 30

His Gln Ala Gln Ile His Phe Arg Ala Ser Glu Val Arg Arg Gly Trp  
 35 40 45

Thr Phe Asn His Asp  
 50

<210> 1056  
 <211> 578  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (326)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (342)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (444)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1056  
 Met Pro Phe Arg Leu Leu Ile Pro Leu Gly Leu Leu Cys Ala Leu Leu  
 1 5 10 15

Pro Gln His His Gly Ala Pro Gly Pro Asp Gly Ser Ala Pro Asp Pro  
 20 25 30

Ala His Tyr Arg Glu Arg Val Lys Ala Met Phe Tyr His Ala Tyr Asp

35 40 45  
 Ser Tyr Leu Glu Asn Ala Phe Pro Phe Asp Glu Leu Arg Pro Leu Thr  
 50 55 60  
 Cys Asp Gly His Asp Thr Trp Gly Ser Phe Ser Leu Thr Leu Ile Asp  
 65 70 75 80  
 Ala Leu Asp Thr Leu Leu Ile Leu Gly Asn Val Ser Glu Phe Gln Arg  
 85 90 95  
 Val Val Glu Val Leu Gln Asp Ser Val Asp Phe Asp Ile Asp Val Asn  
 100 105 110  
 Ala Ser Val Phe Glu Thr Asn Ile Arg Val Val Gly Gly Leu Leu Ser  
 115 120 125  
 Ala His Leu Leu Ser Lys Lys Ala Gly Val Glu Val Glu Ala Gly Trp  
 130 135 140  
 Pro Cys Ser Gly Pro Leu Leu Arg Met Ala Glu Glu Ala Ala Arg Lys  
 145 150 155 160  
 Leu Leu Pro Ala Phe Gln Thr Pro Thr Gly Met Pro Tyr Gly Thr Val  
 165 170 175  
 Asn Leu Leu His Gly Val Asn Pro Gly Glu Thr Pro Val Thr Cys Thr  
 180 185 190  
 Ala Gly Ile Gly Thr Phe Ile Val Glu Phe Ala Thr Leu Ser Ser Leu  
 195 200 205  
 Thr Gly Asp Pro Val Phe Glu Asp Val Ala Arg Val Ala Leu Met Arg  
 210 215 220  
 Leu Trp Glu Ser Arg Ser Asp Ile Gly Leu Val Gly Asn His Ile Asp  
 225 230 235 240  
 Val Leu Thr Gly Lys Trp Val Ala Gln Asp Ala Gly Ile Gly Ala Gly  
 245 250 255  
 Val Asp Ser Tyr Phe Glu Tyr Leu Val Lys Gly Ala Ile Leu Leu Gln  
 260 265 270  
 Asp Lys Lys Leu Met Ala Met Phe Leu Glu Tyr Asn Lys Ala Ile Arg  
 275 280 285  
 Asn Tyr Thr Arg Phe Asp Asp Trp Tyr Leu Trp Val Gln Met Tyr Lys  
 290 295 300  
 Gly Thr Val Ser Met Pro Val Phe Gln Ser Leu Glu Ala Tyr Trp Pro  
 305 310 315 320  
 Gly Leu Gln Ser Leu Xaa Gly Asp Ile Asp Asn Ala Met Arg Thr Phe  
 325 330 335  
 Leu Asn Tyr Tyr Thr Xaa Trp Lys Gln Phe Gly Gly Leu Pro Glu Phe



Thr Gly Ala Leu Glu Val Gln Val Pro Glu Asp Pro Val Val Ala Leu  
 20 25 30  
 Val Gly Thr Asp Ala Thr Leu Cys Cys Ser Phe Ser Pro Glu Pro Gly  
 35 40 45  
 Phe Ser Leu Ala Gln Leu Asn Leu Ile Trp Gln Leu Thr Asp Thr Lys  
 50 55 60  
 Gln Leu Val His Ser Phe Ala Glu Gly Gln Asp Gln Gly Ser Ala Tyr  
 65 70 75 80  
 Ala Asn Arg Thr Ala Leu Phe Leu Asp Leu Leu Ala Gln Gly Asn Ala  
 85 90 95  
 Ser Leu Arg Leu Gln Ser Val Arg Val Ala Asp Glu Gly Gln Leu His  
 100 105 110  
 Leu Leu Arg Glu His Pro Gly Phe Arg Gln Arg Cys Arg Gln Pro Ala  
 115 120 125  
 Gly Gly Arg Ser Leu Leu Glu Ala Gln His Asp Pro Gly Ala Gln Gln  
 130 135 140  
 Gly Pro Ala Ala Arg Gly Thr Trp  
 145 150

<210> 1058  
 <211> 196  
 <212> PRT  
 <213> Homo sapiens

<400> 1058  
 Met Ala Phe Arg Tyr Leu Ser Trp Ile Leu Phe Pro Leu Leu Gly Cys  
 1 5 10 15  
 Tyr Ala Val Tyr Ser Leu Leu Tyr Leu Glu His Lys Gly Trp Tyr Ser  
 20 25 30  
 Trp Val Leu Ser Met Leu Tyr Gly Phe Leu Leu Thr Phe Gly Phe Ile  
 35 40 45  
 Thr Met Thr Pro Gln Leu Phe Ile Asn Tyr Lys Leu Lys Ser Val Ala  
 50 55 60  
 His Leu Pro Trp Arg Met Leu Thr Tyr Lys Ala Leu Asn Thr Phe Ile  
 65 70 75 80  
 Asp Asp Leu Phe Ala Phe Val Ile Lys Met Pro Val Met Tyr Arg Ile  
 85 90 95  
 Gly Cys Leu Arg Asp Asp Val Val Phe Phe Ile Tyr Leu Tyr Gln Arg  
 100 105 110

Trp Ile Tyr Arg Val Asp Pro Thr Arg Val Asn Glu Phe GlyMet Ser  
 115 120 125  
 Gly Glu Asp Pro Thr Ala Ala Ala Pro Val Ala Glu Val Pro Thr Ala  
 130 135 140  
 Ala Gly Ala Leu Thr Pro Thr Pro Ala Pro Thr Thr Thr Thr Ala Thr  
 145 150 155 160  
 Arg Glu Glu Ala Ser Thr Ser Leu Pro Thr Lys Pro Thr Gln Gly Ala  
 165 170 175  
 Ser Ser Ala Ser Glu Pro Gln Glu Ala Pro Pro Lys Pro Ala Glu Asp  
 180 185 190  
 Lys Lys Lys Asp  
 195

<210> 1059  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 1059  
 Met His Cys His Ser Ala Leu Gly Pro Met Ser Thr Pro Val Leu Pro  
 1 5 10 15  
 Phe Ser Gly Ile Gly Leu Ala Phe Leu Cys Leu Cys Leu Ala Ala Ser  
 20 25 30  
 Met Val Asp Leu Lys Cys Leu Gly Met Asn Ser Thr Leu Leu Gln Pro  
 35 40 45  
 Ser Ile Lys Glu  
 50

<210> 1060  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

<400> 1060  
 Met Ala Arg Gly Cys Val Cys Ser Leu Cys Ala Ser Val Cys Ile Phe  
 1 5 10 15  
 Leu Ser Ser Leu Phe Pro Leu Leu Pro Ser Val His Ser Val Asn Ile  
 20 25 30  
 Ile Ser Cys Leu Leu Leu Ser Lys Cys Phe Glu Gly Leu Glu Leu Met  
 35 40 45  
 Cys Glu His Leu Tyr Gln Leu Ser Gln Leu His Val Leu His His Ile  
 50 55 60

Phe Ser Tyr Leu Leu Cys Thr Pro  
65 70

<210> 1061  
<211> 74  
<212> PRT  
<213> Homo sapiens

<400> 1061  
Met Gly Val Arg Trp Tyr Leu Ile Val Leu Val Cys Ile Ser Leu Ile  
1 5 10 15  
Ile Ser Asp Val Gln Tyr Phe Phe Thr Cys Leu Leu Val Ile Cys Ile  
20 25 30  
Ser Ser Leu Glu Lys Tyr Leu Phe Asn Ser Phe Ala His Phe Lys Ile  
35 40 45  
Arg Leu Phe Gly Phe Leu Leu Leu Met Leu Ser Cys Arg Ser Ser Leu  
50 55 60  
Tyr Ile Leu Asp Ile His Pro Ser Tyr Ile  
65 70

<210> 1062  
<211> 40  
<212> PRT  
<213> Homo sapiens

<400> 1062  
Met Gly Pro Ser Gln Arg Glu Val Thr Val Gln Trp His Arg Ala Leu  
1 5 10 15  
Phe Leu Leu Pro Leu Leu Leu Leu Ser Thr Arg Thr Glu Thr Lys Asn  
20 25 30  
Phe Gly Phe Lys Trp Leu Lys Asp  
35 40

<210> 1063  
<211> 57  
<212> PRT  
<213> Homo sapiens

<400> 1063  
Met His Pro Trp Arg Leu Ser Met Cys Pro Ala Cys Val Leu Ala Ala  
1 5 10 15  
Leu Pro Ala Leu Cys Ser Cys Leu Cys Ser Pro Asp Ala Arg Pro Pro  
20 25 30

His Gly Trp Met Ser Met Pro Phe Thr ProHis Pro Leu Val Ser Arg  
 35 40 45

Ala Met Pro Thr Cys His Pro Cys Ser  
 50 55

<210> 1064  
 <211> 937  
 <212> PRT  
 <213> Homo sapiens

<400> 1064  
 Met Gln Asn Ser Gly Lys Thr Lys Phe Lys Arg Thr Ser Ile Asp Arg  
 1 5 10 15  
 Leu Met Asn Thr Leu Val Leu Trp Ile Phe Gly Phe Leu Ile Cys Leu  
 20 25 30  
 Gly Ile Ile Leu Ala Ile Gly Asn Ser Ile Trp Glu Ser Gln Thr Gly  
 35 40 45  
 Asp Gln Phe Arg Thr Phe Leu Phe Trp Asn Glu Gly Glu Lys Ser Ser  
 50 55 60  
 Val Phe Ser Gly Phe Leu Thr Phe Trp Ser Tyr Ile Ile Ile Leu Asn  
 65 70 75 80  
 Thr Val Val Pro Ile Ser Leu Tyr Val Ser Val Glu Val Ile Arg Leu  
 85 90 95  
 Gly His Ser Tyr Phe Ile Asn Trp Asp Arg Lys Met Tyr Ty Ser Arg  
 100 105 110  
 Lys Ala Ile Pro Ala Val Ala Arg Thr Thr Thr Leu Asn Glu Glu Leu  
 115 120 125  
 Gly Gln Ile Glu Tyr Ile Phe Ser Asp Lys Thr Gly Thr Leu Thr Gln  
 130 135 140  
 Asn Ile Met Thr Phe Lys Arg Cys Ser Ile Asn Gly Arg Ile Tyr Gly  
 145 150 155 160  
 Glu Val His Asp Asp Leu Asp Gln Lys Thr Glu Ile Thr Gln Glu Lys  
 165 170 175  
 Glu Pro Val Asp Phe Ser Val Lys Ser Gln Ala Asp Arg Glu Phe Gln  
 180 185 190  
 Phe Phe Asp His Asn Leu Met Glu Ser Ile Lys Met Gly Asp Pro Lys  
 195 200 205  
 Val His Glu Phe Leu Arg Leu Leu Ala Leu Cys His Thr Val Met Ser  
 210 215 220

Glu Glu Asn Ser Ala Gly Glu Leu Ile Tyr Gln Val Gln Ser Pro Asp  
 225 230 235 240  
 Glu Gly Ala Leu Val Thr Ala Ala Arg Asn Phe Gly Phe Ile Phe Lys  
 245 250 255  
 Ser Arg Thr Pro Glu Thr Ile Thr Ile Glu Glu Leu Gly Thr Leu Val  
 260 265 270  
 Thr Tyr Gln Leu Leu Ala Phe Leu Asp Phe Asn Asn Thr Arg Lys Arg  
 275 280 285  
 Met Ser Val Ile Val Arg Asn Pro Glu Gly Gln Ile Lys Leu Tyr Ser  
 290 295 300  
 Lys Gly Ala Asp Thr Ile Leu Phe Glu Lys Leu His Pro Ser Asn Glu  
 305 310 315 320  
 Val Leu Leu Ser Leu Thr Ser Asp His Leu Ser Glu Phe Ala Gly Glu  
 325 330 335  
 Gly Leu Arg Thr Leu Ala Ile Ala Tyr Arg Asp Leu Asp Asp Lys Tyr  
 340 345 350  
 Phe Lys Glu Trp His Lys Met Leu Glu Asp Ala Asn Val Ala Thr Glu  
 355 360 365  
 Glu Arg Asp Glu Arg Ile Ala Gly Leu Tyr Glu Glu Ile Glu Arg Asp  
 370 375 380  
 Leu Met Leu Leu Gly Ala Thr Ala Val Glu Asp Lys Leu Gln Glu Gly  
 385 390 395 400  
 Val Ile Glu Thr Val Thr Ser Leu Ser Leu Ala Asn Ile Lys Ile Trp  
 405 410 415  
 Val Leu Thr Gly Asp Lys Gln Glu Thr Ala Ile Asn Ile Gly Tyr Ala  
 420 425 430  
 Cys Asn Met Leu Thr Asp Asp Met Asn Asp Val Phe Val Ile Ala Gly  
 435 440 445  
 Asn Asn Ala Val Glu Val Arg Glu Glu Leu Arg Lys Ala Lys Gln Asn  
 450 455 460  
 Leu Phe Gly Gln Asn Arg Asn Phe Ser Asn Gly His Val Val Cys Glu  
 465 470 475 480  
 Lys Lys Gln Gln Leu Glu Leu Asp Ser Ile Val Glu Glu Thr Ile Thr  
 485 490 495  
 Gly Asp Tyr Ala Leu Ile Ile Asn Gly His Ser Leu Ala His Ala Leu  
 500 505 510  
 Glu Ser Asp Val Lys Asn Asp Leu Leu Glu Leu Ala Cys Met Cys Lys  
 515 520 525



Thr Val Ile Cys Cys Arg Val Thr Pro Leu Gln Lys Ala Gln Val Val  
 530 535 540  
 Glu Leu Val Lys Lys Tyr Arg Asn Ala Val Thr Leu Ala Ile Gly Asp  
 545 550 555 560  
 Gly Ala Asn Asp Val Ser Met Ile Lys Ser Ala His Ile Gly Val Gly  
 565 570 575  
 Ile Ser Gly Gln Glu Gly Leu Gln Ala Val Leu Ala Ser Asp Tyr Ser  
 580 585 590  
 Phe Ala Gln Phe Arg Tyr Leu Gln Arg Leu Leu Leu Val His Gly Arg  
 595 600 605  
 Trp Ser Tyr Phe Arg Met Cys Lys Phe Leu Cys Tyr Phe Phe Tyr Lys  
 610 615 620  
 Asn Phe Ala Phe Thr Leu Val His Phe Trp Phe Gly Phe Phe Cys Gly  
 625 630 635 640  
 Phe Ser Ala Gln Thr Val Tyr Asp Gln Trp Phe Ile Thr Leu Phe Asn  
 645 650 655  
 Ile Val Tyr Thr Ser Leu Pro Val Leu Ala Met Gly Ile Phe Asp Gln  
 660 665 670  
 Asp Val Ser Asp Gln Asn Ser Val Asp Cys Pro Gln Leu Tyr Lys Pro  
 675 680 685  
 Gly Gln Leu Asn Leu Leu Phe Asn Lys Arg Lys Phe Phe Ile Cys Val  
 690 695 700  
 Met His Gly Ile Tyr Thr Ser Leu Val Leu Phe Phe Ile Pro Tyr Gly  
 705 710 715 720  
 Ala Phe Tyr Asn Val Ala Gly Glu Asp Gly Gln His Ile Ala Asp Tyr  
 725 730 735  
 Gln Ser Phe Ala Val Thr Met Ala Thr Ser Leu Val Ile Val Val Ser  
 740 745 750  
 Val Gln Ile Ala Leu Asp Thr Ser Tyr Trp Thr Phe Ile Asn His Val  
 755 760 765  
 Phe Ile Trp Gly Ser Ile Ala Ile Tyr Phe Ser Ile Leu Phe Thr Met  
 770 775 780  
 His Ser Asn Gly Ile Phe Gly Ile Phe Pro Asn Gln Phe Pro Phe Val  
 785 790 795 800  
 Gly Asn Ala Arg His Ser Leu Thr Gln Lys Cys Ile Trp Leu Val Ile  
 805 810 815  
 Leu Leu Thr Thr Val Ala Ser Val Met Pro Val Val Ala Phe Arg Phe  
 820 825 830

Leu Lys Val Asp Leu Tyr Pro Thr Leu Ser Asp Gln Ile Arg Arg Trp  
           835                                  840                                  845  
 Gln Lys Ala Gln Lys Lys Ala Arg Pro Pro Ser Ser Arg Arg Pro Arg  
           850                                  855                                  860  
 Thr Arg Arg Ser Ser Ser Arg Arg Ser Gly Tyr Ala Phe Ala His Gln  
  865                                  870                                  875                                  880  
 Glu Gly Tyr Gly Glu Leu Ile Thr Ser Gly Lys Asn Met Arg Ala Lys  
                                   885                                  890                                  895  
 Asn Pro Pro Pro Thr Ser Gly Leu Glu Lys Thr His Tyr Asn Ser Thr  
                                   900                                  905                                  910  
 Ser Trp Ile Glu Asn Leu Cys Lys Lys Thr Thr Asp Thr Val Ser Ser  
           915                                  920                                  925  
 Phe Ser Gln Asp Lys Thr Val Lys Leu  
           930                                  935

<210> 1065  
 <211> 94  
 <212> PRT  
 <213> Homo sapiens

<400> 1065  
 Met Leu Leu Ser Phe Tyr Cys Leu Pro Met Val Ser Ile His Ile Phe  
   1                                  5                                  10                                  15  
 Phe Pro Cys Ala His Cys Val Tyr Leu Leu His Ile Ser Cys Ser Leu  
                                   20                                  25                                  30  
 Gly Glu Glu Ser Phe Asn Arg Asp Thr Cys Lys Lys Asp Phe Cys Phe  
                                   35                                  40                                  45  
 Ser Ile Gln Asn Val Asn Ser Thr Phe Leu Leu Ser Leu Ala Val Phe  
           50                                  55                                  60  
 Arg Phe Ser Glu Arg Phe Ser Asp Ser Asn Phe Leu Phe Thr Thr Pro  
   65                                  70                                  75                                  80  
 Pro Ile Cys Ser Glu Lys Asn Gly Leu Leu Tyr His Trp Ile  
                                   85                                  90

<210> 1066  
 <211> 484  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (322)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (345)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (374)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1066

Met Val Ala Thr Val Cys Gly Leu Leu Val Phe Leu Ser Leu Gly Leu  
1 5 10 15

Val Pro Pro Val Arg Cys Leu Phe Ala Leu Ser Val Pro Thr Leu Gly  
20 25 30

Met Glu Gln Gly Arg Arg Leu Leu Leu Ser Tyr Ser Thr Ala Thr Leu  
35 40 45

Ala Ile Ala Val Val Pro Asn Val Leu Ala Asn Val Gly Ala Ala Gly  
50 55 60

Gln Val Leu Arg Cys Val Thr Glu Gly Ser Leu Glu Ser Leu Leu Asn  
65 70 75 80

Thr Thr His Gln Leu His Ala Ala Ser Arg Ala Leu Gly Pro Thr Gly  
85 90 95

Gln Ala Gly Ser Arg Gly Leu Thr Phe Glu Ala Gln Asp Asn Gly Ser  
100 105 110

Ala Phe Tyr Leu His Met Leu Thr Val Thr Gln Gln Val Leu Glu Asp  
115 120 125

Phe Ser Gly Leu Glu Ser Leu Ala Arg Ala Ala Ala Leu Gly Thr Gln  
130 135 140

Arg Val Val Thr Gly Leu Phe Met Leu Gly Leu Leu Val Glu Ser Ala  
145 150 155 160

Trp Tyr Leu His Cys Tyr Leu Thr Asp Leu Arg Phe Asp Asn Ile Tyr  
165 170 175

Ala Thr Gln Gln Leu Thr Gln Arg Leu Ala Gln Ala Gln Ala Thr His  
180 185 190

Leu Leu Ala Pro Pro Pro Thr Trp Leu Leu Gln Ala Ala Gln Leu Arg  
195 200 205

Leu Ser Gln Glu Glu Leu Leu Ser Cys Leu Leu Arg Leu Gly Leu Leu  
210 215 220

Ala Leu Leu Leu Val Ala Thr Ala Val Ala Val Ala Thr Asp His Val  
225 230 235 240

Ala Phe Leu Leu Ala Gln Ala Thr Val Asp Trp Ala Gln Lys Leu Pro  
 245 250 255  
 Thr Val Pro Ile Thr Leu Thr Val Lys Tyr Asp Val Ala Tyr Thr Val  
 260 265 270  
 Leu Gly Phe Ile Pro Phe Leu Phe Asn Gln Leu Ala Pro Glu Ser Pro  
 275 280 285  
 Phe Leu Ser Val His Ser Ser Tyr Gln Trp Glu Leu Arg Leu Thr Ser  
 290 295 300  
 Ala Arg Cys Pro Leu Leu Pro Ala Arg Arg Pro Arg Ala Ala Ala Pro  
 305 310 315 320  
 Leu Xaa Ala Gly Gly Leu Gln Leu Leu Ala Gly Ser Thr Val Leu Leu  
 325 330 335  
 Glu Gly Tyr Ala Arg Arg Leu Arg Xaa Ala Ile Ala Ala Ser Phe Phe  
 340 345 350  
 Thr Ala Gln Glu Ala Arg Arg Ile Arg His Leu His Ala Arg Leu Gln  
 355 360 365  
 Arg Arg His Asp Arg Xaa Gln Gly Gln Gln Leu Pro Leu Gly Asp Pro  
 370 375 380  
 Ser Cys Val Pro Thr Pro Arg Pro Ala Cys Lys Pro Pro Ala Trp Ile  
 385 390 395 400  
 Ala Tyr Arg Leu Asp Ala Leu Arg Thr Glu Ser Ser Glu Gly Glu Gly  
 405 410 415  
 Lys Glu Leu Trp Ser Cys Arg Asp Leu Ser Cys His Leu Gly Pro Val  
 420 425 430  
 Pro Pro Pro Cys Val Thr Leu Gly Lys Ser Leu His Leu Ser Glu Pro  
 435 440 445  
 Arg Phe Leu His Leu His Asn Asp Ser Ile Phe Thr Ile Asp Val Thr  
 450 455 460  
 Tyr Phe Pro Arg Arg Asp Val Val Arg Met Glu Gly Asn Thr Gly His  
 465 470 475 480  
 Asp Arg Pro Gly

<210> 1067  
 <211> 151  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1067

Met Phe Leu Met Leu Gly Cys Ala Leu Pro Ile Tyr Asn Lys Tyr Trp  
 1 5 10 15  
 Pro Leu Phe Val Leu Phe Phe Tyr Ile Leu Ser Pro Ile Pro Tyr Cys  
 20 25 30  
 Ile Ala Arg Arg Leu Val Asp Asp Thr Asp Ala Met Ser Asn Ala Cys  
 35 40 45  
 Lys Glu Leu Ala Ile Phe Leu Thr Thr Gly Ile Val Val Ser Ala Phe  
 50 55 60  
 Gly Leu Pro Ile Val Phe Ala Arg Ala His Leu Met Gly Arg Leu Pro  
 65 70 75 80  
 Phe Phe Ser Lys Met Gly Thr Ala Glu Ser Glu Gly Arg Glu Thr Leu  
 85 90 95  
 Thr Gln Gln Leu Pro Leu Pro Ala Ala Ala Met Arg Arg Leu Leu Pro  
 100 105 110  
 Ala Ser Arg Val Ser Thr Gln Pro Val Leu Arg Leu Ala Asp Ser Ala  
 115 120 125  
 Glu Ser Leu Leu Gly Arg Pro Ala Leu Trp Ala Leu Gly Phe Leu Leu  
 130 135 140  
 Cys Pro Pro Ser Gln Ala Gln  
 145 150

<210> 1068

<211> 242

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (139)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1068

Met Glu Gln Ala Arg Lys Ser Ser Thr Val Ser Leu Leu Ile Thr Val  
 1 5 10 15

Leu Phe Ala Val Ala Phe Ser Val Leu Leu Ser Cys Lys Asp His  
 20 25 30

Val Gly Tyr Ile Phe Thr Thr Asp Arg Asp Ile Ile Asn Leu Val Ala  
 35 40 45

Gln Val Val Pro Ile Tyr Ala Val Ser His Leu Phe Glu Ala Leu Ala  
 50 55 60  
 Cys Thr Ser Gly Gly Val Leu Arg Gly Ser Gly Asn Gln Lys Val Gly  
 65 70 75 80  
 Ala Ile Val Asn Thr Ile Gly Xaa Tyr Val Val Gly Leu Pro Ile Gly  
 85 90 95  
 Ile Ala Leu Met Phe Ala Thr Thr Leu Gly Val Met Gly Leu Trp Ser  
 100 105 110  
 Gly Ile Ile Ile Cys Thr Val Phe Gln Ala Val Cys Phe Leu Gly Phe  
 115 120 125  
 Ile Ile Gln Leu Asn Trp Lys Lys Ala Cys Xaa Gln Ala Gln Val His  
 130 135 140  
 Ala Asn Leu Lys Val Asn Asn Val Pro Arg Ser Gly Asn Ser Ala Leu  
 145 150 155 160  
 Pro Gln Asp Pro Leu His Pro Gly Cys Pro Glu Asn Leu Glu Gly Ile  
 165 170 175  
 Leu Thr Asn Asp Val Gly Lys Thr Gly Glu Pro Gln Ser Asp Gln Gln  
 180 185 190  
 Met Arg Gln Glu Glu Pro Leu Pro Glu His Pro Gln Asp Gly Ala Lys  
 195 200 205  
 Leu Ser Arg Lys Gln Leu Val Leu Arg Arg Gly Leu Leu Leu Leu Gly  
 210 215 220  
 Val Phe Leu Ile Leu Leu Val Gly Ile Leu Val Arg Phe Tyr Val Arg  
 225 230 235 240  
 Ile Gln

<210> 1069  
 <211> 567  
 <212> PRT  
 <213> Homo sapiens

<400> 1069  
 Met Ala Pro Leu Ala Leu His Leu Leu Val LeuVal Pro Ile Leu Leu  
 1 5 10 15  
 Ser Leu Val Ala Ser Gln Asp Trp Lys Ala Glu Arg Ser Gln Asp Pro  
 20 25 30  
 Phe Glu Lys Cys Met Gln Asp Pro Asp Tyr Glu GlnLeu Leu Lys Val  
 35 40 45  
 Val Thr Trp Gly Leu Asn Arg Thr Leu Lys Pro Gln Arg Val Ile Val

50	55	60
Val Gly Ala Gly Val Ala Gly Leu Val Ala Ala Lys Val Leu Ser Asp 65 70 75 80		
Ala Gly His Lys Val Thr Ile Leu Glu Ala Asp Asn Arg Ile Gly Gly 85 90 95		
Arg Ile Phe Thr Tyr Arg Asp Gln Asn Thr Gly Trp Ile Gly Glu Leu 100 105 110		
Gly Ala Met Arg Met Pro Ser Ser His Arg Ile Leu His Lys Leu Cys 115 120 125		
Gln Gly Leu Gly Leu Asn Leu Thr Lys Phe Thr Gln Tyr Asp Lys Asn 130 135 140		
Thr Trp Thr Glu Val His Glu Val Lys Leu Arg Asn Tyr Val Val Glu 145 150 155 160		
Lys Val Pro Glu Lys Leu Gly Tyr Ala Leu Arg Pro Gln Glu Lys Gly 165 170 175		
His Ser Pro Glu Asp Ile Tyr Gln Met Ala Leu Asn Gln Ala Leu Lys 180 185 190		
Asp Leu Lys Ala Leu Gly Cys Arg Lys Ala Met Lys Lys Phe Glu Arg 195 200 205		
His Thr Leu Leu Glu Tyr Leu Leu Gly Glu Gly Asn Leu Ser Arg Pro 210 215 220		
Ala Val Gln Leu Leu Gly Asp Val Met Ser Glu Asp Gly Phe Phe Tyr 225 230 235 240		
Leu Ser Phe Ala Glu Ala Leu Arg Ala His Ser Cys Leu Ser Asp Arg 245 250 255		
Leu Gln Tyr Ser Arg Ile Val Gly Gly Trp Asp Leu Leu Pro Arg Ala 260 265 270		
Leu Leu Ser Ser Leu Ser Gly Leu Val Leu Leu Asn Ala Pro Val Val 275 280 285		
Ala Met Thr Gln Gly Pro His Asp Val His Val Gln Ile Glu Thr Ser 290 295 300		
Pro Pro Ala Arg Asn Leu Lys Val Leu Lys Ala Asp Val Val Leu Leu 305 310 315 320		
Thr Ala Ser Gly Pro Ala Val Lys Arg Ile Thr Phe Ser Pro Pro Leu 325 330 335		
Pro Arg His Met Gln Glu Ala Leu Arg Arg Leu His Tyr Val Pro Ala 340 345 350		
Thr Lys Val Phe Leu Ser Phe Arg Arg Pro Phe Trp Arg Glu Glu His		





<210> 1071  
 <211> 200  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (144)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (149)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (160)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (173)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (177)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (189)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <400> 1071  
 Met Phe Phe Leu Leu Cys Leu Val Ala Leu Glu Ile Lys Gly Phe Thr  
   1                  5                  10                  15  
  
 Phe Ser Ala Arg Gly Ala Arg Asp Arg Phe Leu Asn LysSer Gly Pro  
           20                  25                  30  
  
 Gln Pro Gly Lys Lys Met Lys Thr Thr His Cys Lys Gln Pro Leu Phe  
       35                  40                  45  
  
 Ser Lys Pro Gly Gln Val Arg Gly Ala Leu Arg Lys Ala Arg Gly Arg  
   50                  55                  60  
  
 Gln Glu Glu Arg Glu Ala Val Gly Met Trp Gly Gly Arg Gly His Ser  
   65                  70                  75                  80

Tyr Pro Glu Tyr Ile Lys Thr Ser Glu Val Thr Glu Val Arg Asp Ser  
                     85                    90                    95  
 Pro Lys His Pro Gln Val Gln Pro Phe Leu Thr Thr Arg Val Thr Cys  
                     100                    105                    110  
 Arg Val Pro Gly His Leu Gln Val Leu Glu Ala Leu Cys Gly Ala Trp  
                     115                    120                    125  
 Gly Ser Met Phe Lys His Ala Leu Val Val Val Gln Val Pro Arg Xaa  
                     130                    135                    140  
 Arg Gly Arg Ala Xaa Leu Gly Ser Glu Trp Gln Val Gly Gln Leu Xaa  
                     145                    150                    155                    160  
 Leu Ile Leu Leu His Gly Thr Gln His Trp Ala Ala Xaa Leu Val Pro  
                     165                    170                    175  
 Xaa Leu Pro Gln Glu Ser Ile Leu Pro Ala Gln Ser Xaa Arg Val Thr  
                     180                    185                    190  
 Asn Thr Pro Gly Thr Glu Glu Thr  
                     195                    200

<210> 1072  
 <211> 369  
 <212> PRT  
 <213> Homo sapiens

<400> 1072  
 Met Leu Gly Ala Phe Val Trp Pro Ser Leu Leu Leu Leu Ala Ala Ala  
   1                    5                    10                    15  
 Cys Ile Cys Leu Leu Thr Phe Ile Asn Cys Ala Tyr Val Lys Trp Gly  
                     20                    25                    30  
 Thr Leu Val Gln Asp Ile Phe Thr Tyr Ala Lys Val Leu Ala Leu Ile  
                     35                    40                    45  
 Ala Val Ile Val Ala Gly Ile Val Arg Leu Gly Gln Gly Ala Ser Thr  
                     50                    55                    60  
 His Phe Glu Asn Ser Phe Glu Gly Ser Ser Phe Ala Val Gly Asp Ile  
   65                    70                    75                    80  
 Ala Leu Ala Leu Tyr Ser Ala Leu Phe Ser Tyr Ser Gly Trp Asp Thr  
                     85                    90                    95  
 Leu Asn Tyr Val Thr Glu Glu Ile Lys Asn Pro Glu Arg Asn Leu Pro  
                     100                    105                    110  
 Leu Ser Ile Gly Ile Ser Met Pro Ile Val Thr Ile Ile Tyr Ile Leu  
                     115                    120                    125  
 Thr Asn Val Ala Tyr Tyr Thr Val Leu Asp Met Arg Asp Ile Leu Ala

130 135 140  
 Ser Asp Ala Val Ala Val Thr Phe Ala Asp Gln Ile Phe Gly Ile Phe 160  
 145 150 155  
 Asn Trp Ile Ile Pro Leu Ser Val Ala Leu Ser Cys Phe Gly Gly Leu 19  
 165 170  
 Asn Ala Ser Ile Val Ala Ala Ser Arg Leu Phe Phe Val Gly Ser Arg 190  
 180 185  
 Glu Gly His Leu Pro Asp Ala Ile Cys Met Ile His Val Glu Arg Phe 205  
 195 200  
 Thr Pro Val Pro Ser Leu Leu Phe Asn Gly Ile Met Ala Leu Ile Tyr 220  
 210 215  
 Leu Cys Val Glu Asp Ile Phe Gln Leu Ile Asn Tyr Tyr Ser Phe Ser 240  
 225 230 235  
 Tyr Trp Phe Phe Val Gly Leu Ser Ile Val Gly Gln Leu Tyr Leu Arg 255  
 245 250  
 Trp Lys Glu Pro Asp Arg Pro Arg Pro Leu Lys Leu Ser Val Phe Phe 270  
 260 265  
 Pro Ile Val Phe Cys Leu Cys Thr Ile Phe Leu Val Ala Val Pro Leu 285  
 275 280  
 Tyr Ser Asp Thr Ile Asn Ser Leu Ile Gly Ile Ala Ile Ala Leu Ser 300  
 290 295 300  
 Gly Leu Pro Phe Tyr Phe Leu Ile Ile ArgVal Pro Glu His Lys Arg 320  
 305 310 315  
 Pro Leu Tyr Leu Arg Arg Ser Trp Gly Leu Pro Gln Gly Thr Ser Arg 335  
 325 330  
 Ser Cys Val Cys Gln Leu Leu Gln LysTrp Ile Trp Lys Met Glu Glu 350  
 340 345  
 Arg Cys Pro Ser Asn Gly Ile Pro Ser Leu Thr Lys His His Leu Glu 365  
 355 360  
 Ser

<210> 1073  
 <211> 526  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (466)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1073

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Met Ala Ala Leu Thr Ile Ala Thr Gly Thr Gly Asn Trp Phe Ser Ala
 1           5           10           15

Leu Ala Leu Gly Val Thr Leu Leu Lys Cys Leu Leu Ile Pro Thr Tyr
          20           25           30

His Ser Thr Asp Phe Glu Val His Arg Asn Trp Leu Ala Ile Thr His
          35           40           45

Ser Leu Pro Ile Ser Gln Trp Tyr Tyr Glu Ala Thr Ser Glu Trp Thr
          50           55           60

Leu Asp Tyr Pro Pro Phe Phe Ala Trp Phe Glu Tyr Ile Leu Ser His
 65           70           75           80

Val Ala Lys Tyr Phe Asp Gln Glu Met Leu Asn Val His Asn Leu Asn
          85           90           95

Tyr Ser Ser Ser Arg Thr Leu Leu Phe Gln Arg Phe Ser Val Ile Phe
          100          105          110

Met Asp Val Leu Phe Val Tyr Ala Val Arg Glu Cys Cys Lys Cys Ile
          115          120          125

Asp Gly Lys Lys Val Gly Lys Glu Leu Thr Glu Lys Pro Lys Phe Ile
          130          135          140

Leu Ser Val Leu Leu Leu Trp Asn Phe GlyLeu Leu Ile Val Asp His
          145          150          155          160

Ile His Phe Gln Tyr Asn Gly Phe Leu Phe Gly Leu Met Leu Leu Ser
          165          170          175

Ile Ala Arg Leu Phe Gln Lys Arg HisMet Glu Gly Ala Phe Leu Phe
          180          185          190

Ala Val Leu Leu His Phe Lys His Ile Tyr Leu Tyr Val Ala Pro Ala
          195          200          205

Tyr Gly Val Tyr Leu Leu Arg Ser Tyr Cys Phe ThrAla Asn Lys Pro
          210          215          220

Asp Gly Ser Ile Arg Trp Lys Ser Phe Ser Phe Val Arg Val Ile Ser
          225          230          235          240

Leu Gly Leu Val Val Phe Leu Val Ser Ala Leu Ser Leu GlyPro Phe
          245          250          255

Leu Ala Leu Asn Gln Leu Pro Gln Val Phe Ser Arg Leu Phe Pro Phe
          260          265          270

Lys Arg Gly Leu Cys His Ala Tyr Trp Ala Pro Asn Phe Trp AlaLeu
          275          280          285

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Tyr Asn Ala Leu Asp Lys Val Leu Ser Val Ile Gly Leu Lys Leu Lys  
 290 295 300  
 Phe Leu Asp Pro Asn Asn Ile Pro Lys Ala Ser Met Thr Ser Gly Leu  
 305 310 315 320  
 Val Gln Gln Phe Gln His Thr Val Leu Pro Ser Val Thr Pro Leu Ala  
 325 330 335  
 Thr Leu Ile Cys Thr Leu Ile Ala Ile Leu Pro Ser Ile Phe Cys Leu  
 340 345 350  
 Trp Phe Lys Pro Gln Gly Pro Arg Gly Phe Leu Arg Cys Leu Thr Leu  
 355 360 365  
 Cys Ala Leu Ser Ser Phe Met Phe Gly Trp His Val His Glu Lys Ala  
 370 375 380  
 Ile Leu Leu Ala Ile Leu Pro Met Ser Leu Leu Ser Val Gly Lys Ala  
 385 390 395 400  
 Gly Asp Ala Ser Ile Phe Leu Ile Leu Thr Thr Thr Gly His Tyr Ser  
 405 410 415  
 Leu Phe Pro Leu Leu Phe Thr Ala Pro Glu Leu Pro Ile Lys Ile Leu  
 420 425 430  
 Leu Met Leu Leu Phe Thr Ile Tyr Ser Ile Ser Ser Leu Lys Thr Leu  
 435 440 445  
 Phe Arg Lys Glu Lys Pro Leu Phe Asn Trp Met Glu Thr Phe Tyr Leu  
 450 455 460  
 Leu Xaa Leu Gly Pro Leu Glu Val Cys Cys Glu Phe Val Phe Pro Phe  
 465 470 475 480  
 Thr Ser Trp Lys Val Lys Tyr Pro Phe Ile Pro Leu Leu Leu Thr Ser  
 485 490 495  
 Val Tyr Cys Ala Val Gly Ile Thr Tyr Ala Trp Phe Lys Leu Tyr Val  
 500 505 510  
 Ser Val Leu Ile Asp Ser Ala Ile Gly Lys Thr Lys Lys Gln  
 515 520 525

<210> 1074

<211> 549

<212> PRT

<213> Homo sapiens

<400> 1074

Met Trp Leu Pro Leu Val Leu Leu Leu Ala Val Leu Leu Leu Ala Val  
 1 5 10 15

Leu Cys Lys Val Tyr Leu Gly Leu Phe Ser Gly Ser Ser Pro Asn Pro

20 25 30

Phe Ser Glu Asp Val Lys Arg Pro Pro Ala Pro Leu Val Thr Asp Lys  
35 40 45

Glu Ala Arg Lys Lys Val Leu Lys Gln Gly Ile His Tyr Ile Gly Arg  
50 55 60

Met Glu Glu Gly Ser Ile Gly Arg Phe Ile Leu Asp Gln Ile Thr Glu  
65 70 75 80

Gly Gln Leu Asp Trp Ala Pro Leu Ser Ser Pro Phe Asp Ile Met Val  
85 90 95

Leu Glu Gly Pro Asn Gly Arg Lys Glu Tyr Pro Met Tyr Ser Gly Glu  
100 105 110

Lys Ala Tyr Ile Gln Gly Leu Lys Glu Lys Phe Pro Gln Glu Glu Ala  
115 120 125

Ile Ile Asp Lys Tyr Ile Lys Leu Val Lys Val Val Ser Ser Gly Ala  
130 135 140

Pro His Ala Ile Leu Leu Lys Phe Leu Pro Leu Pro Val Val Gln Leu  
145 150 155 160

Leu Asp Arg Cys Gly Leu Leu Thr Arg Phe Ser Pro Phe Leu Gln Ala  
165 170 175

Ser Thr Gln Ser Leu Ala Glu Val Leu Gln Gln Leu Gly Ala Ser Ser  
180 185 190

Glu Leu Gln Ala Val Leu Ser Tyr Ile Phe Pro Thr Tyr Gly Val Thr  
195 200 205

Pro Asn His Ser Ala Phe Ser Met His Ala Leu Leu Val Asn His Tyr  
210 215 220

Met Lys Gly Gly Phe Tyr Pro Arg Gly Gly Ser Ser Glu Ile Ala Phe  
225 230 235 240

His Thr Ile Pro Val Ile Gln Arg Ala Gly Gly Ala Val Leu Thr Lys  
245 250 255

Ala Thr Val Gln Ser Val Leu Leu Asp Ser Ala Gly Lys Ala Cys Gly  
260 265 270

Val Ser Val Lys Lys Gly His Glu Leu Val Asn Ile Tyr Cys Pro Ile  
275 280 285

Val Val Ser Asn Ala Gly Leu Phe Asn Thr Tyr Glu His Leu Leu Pro  
290 295 300

Gly Asn Ala Arg Cys Leu Pro Gly Val Lys Gln Gln Leu Gly Thr Val  
305 310 315 320

Arg Pro Gly Leu Gly Met Thr Ser Val Phe Ile Cys Leu Arg Gly Thr

325 330 335  
 Lys Glu Asp Leu His Leu Pro Ser Thr Asn Tyr Tyr Val Tyr Tyr Asp  
 340 345 350  
 Thr Asp Met Asp Gln Ala Met Glu Arg Tyr Val Ser Met Pro Arg Glu  
 355 360 365  
 Glu Ala Ala Glu His Ile Pro Leu Leu Phe Phe Ala Phe Pro Ser Ala  
 370 375 380  
 Lys Asp Pro Thr Trp Glu Asp Arg Phe Pro Gly Arg Ser Thr Met Ile  
 385 390 395 400  
 Met Leu Ile Pro Thr Ala Tyr Glu Trp Phe Glu Glu Trp Gln Ala Glu  
 405 410 415  
 Leu Lys Gly Lys Arg Gly Ser Asp Tyr Glu Thr Phe Lys Asn Ser Phe  
 420 425 430  
 Val Glu Ala Ser Met Ser Val Val Leu Lys Leu Phe Pro Gln Leu Glu  
 435 440 445  
 Gly Lys Val Glu Ser Val Thr Ala Gly Ser Pro Leu Thr Asn Gln Phe  
 450 455 460  
 Tyr Leu Ala Ala Pro Arg Gly Ala Cys Tyr Gly Ala Asp His Asp Leu  
 465 470 475 480  
 Gly Arg Leu His Pro Cys Val Met Ala Ser Leu Arg Ala Gln Ser Pro  
 485 490 495  
 Ile Pro Asn Leu Tyr Leu Thr Gly Gln Asp Ile Phe Thr Cys Gly Leu  
 500 505 510  
 Val Gly Ala Leu Gln Gly Ala Leu Leu Cys Ser Ser Ala Ile Leu Lys  
 515 520 525  
 Arg Asn Leu Tyr Ser Asp Leu Lys Asn Leu Asp Ser Arg Ile Arg Ala  
 530 535 540  
 Gln Lys Lys Lys Asn  
 545

<210> 1075  
 <211> 467  
 <212> PRT  
 <213> Homo sapiens

<400> 1075  
 Met Leu Leu Leu Leu Leu Leu Pro Leu Leu Trp Gly Arg Glu Arg Val  
 1 5 10 15  
 Glu Gly Gln Lys Ser Asn Arg Lys Asp Tyr Ser Leu Thr Met Gln Ser  
 20 25 30

Ser Val Thr Val Gln Glu Gly Met Cys Val His Val Arg Cys Ser Phe  
 35 40 45  
 Ser Tyr Pro Val Asp Ser Gln Thr Asp Ser Asp Pro Val His Gly Tyr  
 50 55 60  
 Trp Phe Arg Ala Gly Asn Asp Ile Ser Trp Lys Ala Pro Val Ala Thr  
 65 70 75 80  
 Asn Asn Pro Ala Trp Ala Val Gln Glu Glu Thr Arg Asp Arg Phe His  
 85 90 95  
 Leu Leu Gly Asp Pro Gln Thr Lys Asn Cys Thr Leu Ser Ile Arg Asp  
 100 105 110  
 Ala Arg Met Ser Asp Ala Gly Arg Tyr Phe Phe Arg Met Glu Lys Gly  
 115 120 125  
 Asn Ile Lys Trp Asn Tyr Lys Tyr Asp Gln Leu Ser Val Asn Val Thr  
 130 135 140  
 Ala Leu Thr His Arg Pro Asn Ile Leu Ile Pro Gly Thr Leu Glu Ser  
 145 150 155 160  
 Gly Cys Phe Gln Asn Leu Thr Cys Ser Val Pro Trp Ala Cys Glu Gln  
 165 170 175  
 Gly Thr Pro Pro Met Ile Ser Trp Met Gly Thr Ser Val Ser Pro Leu  
 180 185 190  
 His Pro Ser Thr Thr Arg Ser Ser Val Leu Thr Leu Ile Pro Gln Pro  
 195 200 205  
 Gln His His Gly Thr Ser Leu Thr Cys Gln Val Thr Leu Pro Gly Ala  
 210 215 220  
 Gly Val Thr Thr Asn Arg Thr Ile Gln Leu Asn Val Ser Tyr Pro Pro  
 225 230 235 240  
 Gln Asn Leu Thr Val Thr Val Phe Gln Gly Glu Gly Thr Ala Ser Thr  
 245 250 255  
 Ala Leu Gly Asn Ser Ser Ser Leu Ser Val Leu Glu Gly Gln Ser Leu  
 260 265 270  
 Arg Leu Val Cys Ala Val Asp Ser Asn Pro Pro Ala Arg Leu Ser Trp  
 275 280 285  
 Thr Trp Arg Ser Leu Thr Leu Tyr Pro Ser Gln Pro Ser Asn Pro Leu  
 290 295 300  
 Val Leu Glu Leu Gln Val His Leu Gly Asp Glu Gly Glu Phe Thr Cy  
 305 310 315 320  
 Arg Ala Gln Asn Ser Leu Gly Ser Gln His Val Ser Leu Asn Leu Ser  
 325 330 335



Leu Gln Gln Glu Tyr Thr Gly Lys Met Arg Pro Val Ser Gly Val Leu  
 340 345 350  
 Leu Gly Ala Val Gly Gly Ala Gly Ala Thr Ala Leu Val Phe Leu Ser  
 355 360 365  
 Phe Cys Val Ile Phe Ile Val Val Arg Ser Cys Arg Lys Lys Ser Ala  
 370 375 380  
 Arg Pro Ala Ala Asp Val Gly Asp Ile Gly Met Lys Asp Ala Asn Thr  
 385 390 395 400  
 Ile Arg Gly Ser Ala Ser Gln Gly Asn Leu Thr Glu Ser Trp Ala Asp  
 405 410 415  
 Asp Asn Pro Arg His His Gly Leu Ala Ala His Ser Ser Gly Glu Glu  
 420 425 430  
 Arg Glu Ile Gln Tyr Ala Pro Leu Ser Phe His Lys Gly Glu Pro Gln  
 435 440 445  
 Asp Leu Ser Gly Gln Glu Ala Thr Asn Asn Glu Tyr Ser Glu Ile Lys  
 450 455 460  
 Ile Pro Lys  
 465

<210> 1076  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 1076  
 Met Lys Val Val Val Val Met Val Val Ile Leu Val Val Val Thr Leu  
 1 5 10 15  
 Val Val Val Val Met Val Val Ile Leu Val Met Val Val Met Val Val  
 20 25 30  
 Ala Leu Val Thr Leu Thr Trp Gly Pro Val Ala Val Thr Val Asp Ala  
 35 40 45  
 Gly Ser Trp  
 50

<210> 1077  
 <211> 455  
 <212> PRT  
 <213> Homo sapiens

<400> 1077  
 Met Ala Ala Leu Leu Leu Leu Pro Leu Leu Leu Leu Leu Po Leu Leu

1	5	10	15
Leu Leu Lys	Leu His Leu Trp Pro	Gln Leu Arg Trp Leu Pro Ala Asp	
	20	25	30
Leu Ala Phe	Ala Val Arg Ala Leu Cys Cys Lys Arg	Ala Leu Ag Ala	
	35	40	45
Arg Ala Leu	Ala Ala Ala Ala Asp Pro Glu Gly	Pro Glu Gly Pro	
	50	55	60
Cys Ile Leu	Ala Trp Arg Leu Ala Glu Leu Ala Gln Gln Arg Ala Arg		
	65	70	75
Asn Phe Leu	Leu Arg Ser Arg Ala Leu Ala Thr Gln Arg Arg Ser Ala		
	85	90	95
Arg Val Thr	Gly Leu Thr Arg Leu Pro Thr Cys Ala Arg Leu Gly Leu		
	100	105	110
Gly Thr Arg	Arg Arg Arg Gln Arg Arg Gly Glu Arg Trp Arg Arg Arg		
	115	120	125
Ala Gly Ser	Ala Gly Ser Arg Arg Cys Ser Gly Arg Lys Arg Arg Gly		
	130	135	140
Val Cys Arg	Arg Gly Arg Cys Arg Gln Arg Trp Arg Ser Arg Ala Pro		
	145	150	155
Leu Ser Pro	Gly Ala Thr Val Ala Leu Leu Leu Pro Ala Gly Pro Glu		
	165	170	175
Phe Leu Trp	Leu Trp Ile Gly Leu Ala Lys Ala Gly Leu Arg Thr Ala		
	180	185	190
Phe Val Pro	Thr Ala Leu Arg Arg Gly Pro Leu Leu His Cys Leu Arg		
	195	200	205
Ser Cys Gly	Ala Arg Ala Leu Val Leu Ala Pro Glu Phe Leu Glu Ser		
	210	215	220
Leu Glu Pro	Asp Leu Pro Ala Leu Arg Ala Met Gly Leu His Leu Trp		
	225	230	235
Ala Ala Gly	Pro Gly Thr His Pro Ala Gly Ile Ser Asp Leu Leu Ala		
	245	250	255
Glu Val Ser	Ala Glu Val Asp Gly Pro Val Pro Gly Tyr Leu Ser Ser		
	260	265	270
Pro Gln Ser	Ile Thr Asp Thr Cys Leu Tyr Ile Phe Thr Ser Gly Thr		
	275	280	285
Thr Gly Leu	Pro Lys Ala Ala Arg Ile Ser His Leu Lys Ile Leu Gln		
	290	295	300
Cys Gln Gly	Phe Tyr Gln Leu Cys Gly Val His Gln Glu Asp Val Ile		



Glu Asn Lys Pro Ile Phe Leu Ser Val Gly Tyr Ser Thr Cys His Trp  
 115 120 125  
 Cys His Met Met Glu Glu Glu Ser Phe Gln Asn Glu Glu Ile Gly Arg  
 130 135 140  
 Leu Leu Ser Glu Asp Phe Val Ser Val Lys Val Asp Arg Glu Glu Arg  
 145 150 155 160  
 Pro Asp Val Asp Lys Val Tyr Met Thr Phe Val Gln Ala Thr Ser Ser  
 165 170 175  
 Gly Gly Gly Trp Pro Met Asn Val Trp Leu Thr Pro Asn Leu Gln Pro  
 180 185 190  
 Phe Val Gly Gly Thr Tyr Phe Pro Pro Glu Asp Gly Leu Thr Arg Val  
 195 200 205  
 Gly Phe Arg Thr Val Leu Leu Arg Ile Arg Glu Gln Trp Lys Gln Asn  
 210 215 220  
 Lys Asn Thr Leu Leu Glu Asn Ser Gln Arg Val Thr Thr Ala Leu Leu  
 225 230 235 240  
 Ala Arg Ser Glu Ile Ser Val Gly Asp Arg Gln Leu Pro Pro Ser Ala  
 245 250 255  
 Ala Thr Val Asn Asn Arg Cys Phe Gln Gln Leu Asp Glu Gly Tyr Asp  
 260 265 270  
 Glu Glu Tyr Gly Gly Phe Ala Glu Ala Pro Lys Phe Pro Thr Pro Val  
 275 280 285  
 Ile Leu Ser Phe Leu Phe Ser Tyr Trp Leu Ser His Arg Leu Thr Gln  
 290 295 300  
 Asp Gly Ser Arg Ala Gln Gln Met Ala Leu His Thr Leu Lys Met Met  
 305 310 315 320  
 Ala Asn Gly Gly Ile Arg Asp His Val Gly Gln Gly Phe His Arg Tyr  
 325 330 335  
 Ser Thr Asp Arg Gln Trp His Val Pro His Phe Glu Lys Met Leu Tyr  
 340 345 350  
 Asp Gln Ala Gln Leu Ala Val Ala Tyr Ser Gln Ala Phe Gln Leu Ser  
 355 360 365  
 Gly Asp Glu Phe Tyr Ser Asp Val Ala Lys Gly Ile Leu Gln Tyr Val  
 370 375 380  
 Ala Arg Ser Leu Ser His Arg Ser Gly Gly Phe Tyr Ser Ala Glu Asp  
 385 390 395 400  
 Ala Asp Ser Pro Pro Glu Arg Gly Gln Arg Pro Lys Glu Gly Ala Tyr  
 405 410 415

Tyr Val Trp Thr Val Lys Glu Val Gln Gln Leu Leu Pro Glu Pro Val  
420 425 430  
Leu Gly Ala Thr Glu Pro Leu Thr Ser Gly Gln Leu Leu Met Lys His  
435 440 445  
Tyr Gly Leu Thr Glu Ala Gly Asn Ile Ser Pro Ser Gln Asp Pro Lys  
450 455 460  
Gly Glu Leu Gln Gly Gln Asn Val Leu Thr Val Arg Tyr Ser Leu Glu  
465 470 475 480  
Leu Thr Ala Ala Arg Phe Gly Leu Asp Val Glu Ala Val Arg Thr Leu  
485 490 495  
Leu Asn Ser Gly Leu Glu Lys Leu Phe Gln Ala Arg Lys His Arg Pro  
500 505 510  
Lys Pro His Leu Asp Ser Lys Met Leu Ala Ala Trp Asn Gly Leu Met  
515 520 525  
Val Ser Gly Tyr Ala Val Thr Gly Ala Val Leu Gly Gln Asp Arg Leu  
530 535 540  
Ile Asn Tyr Ala Thr Asn Gly Ala Lys Phe Leu Lys Arg His Met Phe  
545 550 555 560  
Asp Val Ala Ser Gly Arg Leu Met Arg Thr Cys Tyr Thr Gly Pro Gly  
565 570 575  
Gly Thr Val Glu His Ser Asn Pro Pro Cys Trp Gly Phe Leu Glu Asp  
580 585 590  
Tyr Ala Phe Val Val Arg Gly Leu Leu Asp Leu Tyr Glu Ala Ser Gln  
595 600 605  
Glu Ser Ala Trp Leu Glu Trp Ala Leu Arg Leu Gln Asp Thr Gln Asp  
610 615 620  
Arg Leu Phe Trp Asp Ser Gln Gly Gly Gly Tyr Phe Cys Ser Glu Ala  
625 630 635 640  
Glu Leu Gly Ala Gly Leu Pro Leu Arg Leu Lys Asp Asp Gln Asp Gly  
645 650 655  
Ala Glu Pro Ser Ala Asn Ser Val Ser Ala His Asn Leu Leu Arg Leu  
660 665 670  
His Gly Phe Thr Gly His Lys Asp Trp Met Asp Lys Cys Val Cys Leu  
675 680 685  
Leu Thr Ala Phe Ser Glu Arg Met Arg Arg Val Pro Val Ala Leu Pro  
690 695 700  
Glu Met Val Arg Ala Leu Ser Ala Gln Gln Gln Thr Leu Lys Gln Ile  
705 710 715 720

Val Ile Cys Gly Asp Arg Gln Ala Lys Asp Thr Lys Ala Leu Val Gln  
                     725                    730                    735  
 Cys Val His Ser Val Tyr Ile Pro Asn Lys Val Leu Ile Leu Ala Asp  
                     740                    745                    750  
 Gly Asp Pro Ser Ser Phe Leu Ser Arg Gln Leu Pro Phe Leu Ser Thr  
                     755                    760                    765  
 Leu Arg Arg Leu Glu Asp Gln Ala Thr Ala Tyr Val Cys Glu Asn Gln  
                     770                    775                    780  
 Ala Cys Ser Val Pro Ile Thr Asp Pro Cys Glu Leu Arg Lys Leu Leu  
                     785                    790                    795                    800  
 His Pro

<210> 1079  
 <211> 325  
 <212> PRT  
 <213> Homo sapiens

<400> 1079  
 Met Gly Ser Gln Val Ser Ser Met Leu Lys Leu Ala Leu Gln Asn Cys  
   1                    5                    10                    15  
 Cys Pro Gln Leu Trp Gln Arg His Ser Ala Arg Asp Arg Gln Cys Ala  
                     20                    25                    30  
 Arg Val Leu Ala Asp Glu Arg Ser Pro Gln Pro Gly Ala Ser Pro Gln  
                     35                    40                    45  
 Glu Asp Ile Ala Asn Phe Gln Val Leu Val Lys Ile Leu Pro Val Met  
                     50                    55                    60  
 Val Thr Leu Val Pro Tyr Trp Met Val Tyr Phe Gln Met Gln Ser Thr  
                     65                    70                    75                    80  
 Tyr Val Leu Gln Gly Leu His Leu His Ile Pro Asn Ile Phe Pro Ala  
                     85                    90                    95  
 Asn Pro Ala Asn Ile Ser Val Ala Leu Arg Ala Gln Gly Ser Ser Tyr  
                     100                    105                    110  
 Thr Ile Pro Glu Ala Trp Leu Leu Leu Ala Asn Val Val Val Val Leu  
                     115                    120                    125  
 Ile Leu Val Pro Leu Lys Asp Arg Leu Ile Asp Pro Leu Leu Leu Arg  
                     130                    135                    140  
 Cys Lys Leu Leu Pro Ser Ala Leu Gln Lys Met Ala Leu Gly Met Phe  
                     145                    150                    155                    160







Thr Asn Glu Gly Arg Ala Leu Lys Thr Ala Thr Ser Leu Ala Glu Gly  
 20 25 30  
 Leu Ser Leu Val Val Ser Pro Asp Ser Ile His Ser Val Ala Pro Glu  
 35 40 45  
 Asn Glu Gly Arg Leu Val His Ile Ile Gly Ala Leu Arg Thr Ser Lys  
 50 55 60  
 Leu Leu Ser Asp Pro Asn Tyr Gly Val His Leu Pro Ala Val Lys Leu  
 65 70 75 80  
 Arg Arg His Val Glu Met Tyr Gln Trp Val Glu Thr Glu Glu Ser Arg  
 85 90 95  
 Glu Tyr Thr Glu Asp Gly Gln Val Lys Lys Glu Thr Arg Tyr Ser Tyr  
 100 105 110  
 Asn Thr Glu Trp Arg Ser Glu Ile Ile Asn Ser Lys Asn Phe Asp Arg  
 115 120 125  
 Glu Ile Gly His Lys Asn Pro Ser Ala Met Ala Val Glu Ser Phe Met  
 130 135 140  
 Ala Thr Ala Pro Phe Val Gln Ile Gly Arg Phe Phe Leu Ser Ser Gly  
 145 150 155 160  
 Leu Ile Asp Lys Val Asp Asn Phe Lys Ser Leu Ser Leu Ser Lys Leu  
 165 170 175  
 Glu Asp Pro His Val Asp Ile Ile Arg Arg Gly Asp Phe Phe Tyr His  
 180 185 190  
 Ser Glu Asn Pro Lys Tyr Pro Glu Val Gly Asp Leu Arg Val Ser Phe  
 195 200 205  
 Ser Tyr Ala Gly Leu Ser Gly Asp Asp Pro Asp Leu Gly Pro Ala His  
 210 215 220  
 Val Val Thr Val Ile Ala Arg Gln Arg Gly Asp Gln Leu Val Pro Phe  
 225 230 235 240  
 Ser Thr Lys Ser Gly Asp Thr Leu Leu Leu Leu His His Gly Asp Phe  
 245 250 255  
 Ser Ala Glu Glu Val Phe His Arg Glu Leu Arg Ser Asn Ser Met Lys  
 260 265 270  
 Thr Trp Gly Leu Arg Ala Ala Gly Trp Met Ala Met Phe Met Gly Leu  
 275 280 285  
 Asn Leu Met Thr Arg Ile Leu Tyr Thr Leu Val Asp Trp Phe Pro Val  
 290 295 300  
 Phe Arg Asp Leu Val Asn Ile Gly Leu Lys Ala Phe Ala Phe Cys Val  
 305 310 315 320

Ala Thr Ser Leu Thr Leu Leu Thr Val Ala Ala Gly Trp Leu Phe Tyr  
 325 330 335

Arg Pro Leu Trp Ala Leu Leu Ile Ala Gly Leu Ala Leu Val Pro Ile  
 340 345 350

Leu Val Ala Arg Thr Arg Val Pro Ala Lys Lys Leu Glu  
 355 360 365

<210> 1082  
 <211> 219  
 <212> PRT  
 <213> Homo sapiens

<400> 1082  
 Met Lys Leu Leu Leu Trp Ala Cys Ile Val Cys Val Ala Phe Ala Arg  
 1 5 10 15

Lys Arg Arg Phe Pro Phe Ile Gly Glu Asp Asp Asn Asp Asp GlyHis  
 20 25 30

Pro Leu His Pro Ser Leu Asn Ile Pro Tyr Gly Ile Arg Asn Leu Pro  
 35 40 45

Pro Pro Leu Tyr Tyr Arg Pro Val Asn Thr Val Pro Ser Tyr Pro Gly  
 50 55 60

Asn Thr Tyr Thr Asp Thr Gly Leu Pro Ser Tyr Pro Trp Ile Leu Thr  
 65 70 75 80

Ser Pro Gly Phe Pro Tyr Val Tyr His Ile Arg Gly Phe Pro Leu Ala  
 85 90 95

Thr Gln Leu Asn Val Pro Pro Leu Pro Pro Arg Gly Phe Pro Phe Val  
 100 105 110

Pro Pro Ser Arg Phe Phe Ser Ala Ala Ala Ala Pro Ala Ala Pro Pro  
 115 120 125

Ile Ala Ala Glu Pro Ala Ala Ala Ala Pro Leu Thr Ala Thr Pro Val  
 130 135 140

Ala Ala Glu Pro Ala Ala Gly Ala Pro Val Ala Ala Glu Pro Ala Ala  
 145 150 155 160

Glu Ala Pro Val Gly Ala Glu Pro Ala Ala Glu Ala Pro Val Ala Ala  
 165 170 175

Glu Pro Ala Ala Glu Ala Pro Val Gly Val Glu Pro Ala Ala Glu Glu  
 180 185 190

Pro Ser Pro Ala Glu Pro Ala Thr Ala Lys Pro Ala Ala Pro Glu Pro  
 195 200 205

His Pro Ser Pro Ser Leu Glu Gln Ala Asn Gln  
 210 215

<210> 1083  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 1083  
 Met Phe Tyr Lys Leu Thr Leu Ile Leu Cys Glu Leu Ser Val Ala Gly  
 1 5 10 15  
 Val Thr Gln Ala Ala Ser Gln Arg Pro Leu Gln Arg Leu Pro Arg His  
 20 25 30  
 Ile Cys Ser Gln Arg Ser Ser Ser Trp Glu Met Pro Pro Gln Gly Pro  
 35 40 45  
 Ala Pro Asp His Val Gly Arg Ala  
 50 55

<210> 1084  
 <211> 83  
 <212> PRT  
 <213> Homo sapiens

<400> 1084  
 Gly His Val Leu Ala Tyr Ser Ser Trp Pro Ser Leu Ala Pro Gly Leu  
 1 5 10 15  
 Ser Val Gln Tyr Phe Val Ser Arg Val Glu Val Pro Asn Pro Gly Cys  
 20 25 30  
 Thr Leu Glu Ala Pro Gly Lys Leu Ser Glu Phe Leu Arg Pro Glu Pro  
 35 40 45  
 His Pro Lys Pro Ile Ser Ser Glu Ser Leu Gly Gly Thr Glu Pro Gly  
 50 55 60  
 Phe Cys Gln Leu Lys Pro Ala Met Val Thr Ser Val Ser Ser Tyr Thr  
 65 70 75 80  
 Glu Asn Ser

<210> 1085  
 <211> 85  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1085

Met Lys Lys Val Leu Leu Leu Ile Thr Ala Ile Leu Ala Val Ala Val  
 1 5 10 15  
 Gly Phe Pro Val Ser Gln Asp Gln Glu Arg Glu Lys Arg Ser Ile Ser  
 20 25 30  
 Asp Ser Asp Glu Leu Ala Ser Gly Phe Phe Val Phe Pro Tyr Pro Tyr  
 35 40 45  
 Pro Phe Arg Pro Leu Pro Pro Ile Pro Phe Pro Arg Phe Pro Trp Phe  
 50 55 60  
 Arg Arg Asn Phe Pro Ile Pro Ile Pro Glu Ser Ala Pro Thr Thr Pro  
 65 70 75 80  
 Leu Pro Ser Glu Lys  
 85

<210> 1086  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 1086  
 Met Tyr Val Trp Val Ser Gly Ala Leu Val Leu Val Leu Ser Pro His  
 1 5 10 15  
 Pro Ala Ser Arg Thr Leu Cys Leu Met Ala Gln Ala Val  
 20 25

<210> 1087  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 1087  
 Met Ser Arg Ala Pro Cys Ala Ser Ser Ile Leu Val Leu Thr Leu Ile  
 1 5 10 15  
 Val Thr Leu Leu Val Leu Leu Cys Ser Val Lys Ile Cys Asn Trp Leu  
 20 25 30  
 Arg Ile Thr Val Gly Val His Ser Tyr Ser Thr Lys Ser Pro Gln Val  
 35 40 45  
 Phe

<210> 1088  
 <211> 297  
 <212> PRT

<213> Homo sapiens

<400> 1088

Met Thr Ile Ser Lys Lys Ile Glu Gln Asn Glu Gly Lys Arg Gly Ser  
1 5 10 15  
Val Leu Ala His Ser Cys Asp Gln Pro Ala Val Cys Gly Val Pro Ser  
20 25 30  
Trp Pro Gly Leu Gly Thr Cys Ser Phe Leu Trp Leu Leu Pro Gly Gln  
35 40 45  
Ala Thr Leu Gln Gly Cys Phe Ser Thr His Pro Phe Ala Cys Leu Pro  
50 55 60  
Val Pro Gly Val Val Lys Gly Phe Trp Val Arg Val Gly Thr Pro Phe  
65 70 75 80  
Ser Lys Ala Pro Cys Lys Ala Gly Leu Ser Leu Val Gly Leu Thr Ala  
85 90 95  
Ser Phe Ser Pro Cys Gln Ala Ala Gln Ala Pro Glu Val Thr Tyr Glu  
100 105 110  
Ala Glu Glu Gly Ser Leu Trp Thr Leu Leu Leu Thr Ser Leu Asp Gly  
115 120 125  
His Leu Leu Glu Pro Asp Ala Glu Tyr Leu His Trp Leu Leu Thr Asn  
130 135 140  
Ile Pro Gly Asn Arg Val Ala Glu Gly Gln Val Thr Cys Pro Tyr Leu  
145 150 155 160  
Pro Pro Phe Pro Ala Arg Gly Ser Gly Ile His Arg Leu Ala Phe Leu  
165 170 175  
Leu Phe Lys Gln Asp Gln Pro Ile Asp Phe Ser Glu Asp Ala Arg Pro  
180 185 190  
Ser Pro Cys Tyr Gln Leu Ala Gln Arg Thr Phe Arg Thr Phe Asp Phe  
195 200 205  
Tyr Lys Lys His Gln Glu Thr Met Thr Pro Ala Gly Leu Ser Phe Phe  
210 215 220  
Gln Cys Arg Trp Asp Asp Ser Val Thr Tyr Ile Phe His Gln Leu Leu  
225 230 235 240  
Asp Met Arg Glu Pro Val Phe Glu Phe Val Arg Pro Pro Leu Thr Thr  
245 250 255  
Pro Ser Arg Ser Ala Ser Pro Thr Gly Ser Pro Cys Ala Thr Trp Thr  
260 265 270  
Gly Thr Gly Thr Val Met Ser Pro Pro Met Ala Ser Thr Lys Glu Pro  
275 280 285

Glu Cys Ala His Phe Arg Ala Trp Asp  
 290 295

<210> 1089  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 1089  
 Met Glu Leu Leu Gln Ala Lys Lys Leu Leu Leu Leu Gly Leu Phe  
 1 5 10 15  
 Val Ser Cys Cys Ser Asn Ile Arg Lys Thr Glu Pro Cys Phe Gly Leu  
 20 25 30  
 Asp Ser Ile Thr Phe Arg Asp Pro Lys Lys Lys Cys Leu Cys Asn Leu  
 35 40 45  
 Lys Ser Cys  
 50

<210> 1090  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 1090  
 Met Cys Ser Gly Ser Phe Lys Glu Leu Tyr Leu Val Pro IleSer Leu  
 1 5 10 15  
 Phe Ser Thr Cys Val Leu Gly Phe Tyr Phe His Asn Phe Leu Leu Leu  
 20 25 30  
 Ile Ile Leu Phe Ser Ile Leu Leu Arg Lys Ile Thr Gly Lys LeuPhe  
 35 40 45  
 Phe Thr Tyr Tyr His Phe Ser Cys Gly Val  
 50 55

<210> 1091  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 1091  
 Met Ala Ala His Ser Val Leu Ser Phe Leu Leu Trp ThrPro Tyr Ala  
 1 5 10 15  
 Leu Lys Ser

<210> 1092  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 1092  
 Met Tyr Ser Leu Val Leu Thr Phe Leu Val Ser Phe Cys Ala Leu Ser  
   1                  5                  10                  15  
 Lys Thr Phe Leu Asp His Trp Phe Gln Met Phe Ile Tyr Tyr Ile Leu  
           20                  25                  30  
 Phe Lys Asp Ser Glu Ile Gly Phe Cys His Pro Leu Leu Tyr Val Leu  
           35                  40                  45  
 Phe His  
       50

<210> 1093  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (28)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1093  
 Met His Cys Phe Phe Leu Trp Leu Leu Leu PheGly Leu Leu Gly Ile  
   1                  5                  10                  15  
 Ser Gly Phe Leu Gly Tyr Ile Ser Val Ala Gly Xaa Ser Ile Tyr Val  
           20                  25                  30  
 Met Trp Lys Val Glu Lys Glu Met Asn Thr  
       35                  40

<210> 1094  
 <211> 99  
 <212> PRT  
 <213> Homo sapiens

<400> 1094  
 Met Leu Phe Phe Leu Ser Leu Phe Leu Ser Leu Leu Leu Thr Leu Ser  
   1                  5                  10                  15  
 Leu Pro Ser Phe Leu Pro Phe Ser Phe Phe Phe Ser Leu Phe Pro  
           20                  25                  30  
 His Leu Ser Ala Cys Leu Leu Pro Ser Leu Pro Ser Pro Phe Pro

35                      40                      45  
 Leu Pro Pro Ser Leu Pro Ser Phe Leu Pro Ser Phe Leu Pro Ser Phe  
      50                      55                      60  
 Leu Pro Ser Leu Leu Ser Pro Ser Phe Pro Ala Phe Phe Pro Ser Phe  
      65                      70                      75                      80  
 Cys Gln Leu Ala Arg Arg Ser Pro Arg Lys Ser Thr Gln Met Leu Gln  
                                  85                      90                      95  
 Ser Thr Ser

<210> 1095  
 <211> 171  
 <212> PRT  
 <213> Homo sapiens

<400> 1095  
 Met Lys Lys Cys Leu Leu Pro Val Leu Ile Thr Cys Met Gln Thr Ala  
      1                      5                      10                      15  
 Ile Cys Lys Asp Arg Met Met Met Ile Met Ile Leu Leu Val Asn Tyr  
                                  20                      25                      30  
 Arg Pro Asp Glu Phe Ile Glu Cys Glu Asp Pro Val Asp His Val Gly  
                                  35                      40                      45  
 Asn Ala Thr Ala Ser Gln Glu Leu Gly Tyr Gly Cys Leu Lys Phe Gly  
      50                      55                      60  
 Gly Gln Ala Tyr Ser Asp Val Glu His Thr Ser Val Gln Cys His Ala  
      65                      70                      75                      80  
 Leu Asp Gly Ile Glu Cys Ala Ser Pro Arg Thr Phe Leu Arg Glu Asn  
                                  85                      90                      95  
 Lys Pro Cys Ile Lys Tyr Thr Gly His Tyr Phe Ile Thr Thr Leu Leu  
                                  100                      105                      110  
 Tyr Ser Phe Phe Leu Gly Cys Phe Gly Val Asp Arg Phe Cys Leu Gly  
                                  115                      120                      125  
 His Thr Gly Thr Ala Val Gly Lys Leu Leu Thr Leu Gly Gly Leu Gly  
      130                      135                      140  
 Ile Trp Trp Phe Val Asp Leu Ile Leu Leu Ile Thr Gly Gly Leu Met  
      145                      150                      155                      160  
 Pro Ser Asp Gly Ser Asn Trp Cys Thr Val Tyr  
                                  165                      170



<210> 1096  
 <211> 83  
 <212> PRT  
 <213> Homo sapiens

<400> 1096  
 Met Ala Ser Val Gly Thr Thr Leu Val Ser Pro Leu Leu Cys Leu Leu  
 1 5 10 15  
 Ile Pro Thr Arg Val Ser Asp Pro Trp Leu Gln Asn Thr Pro Leu His  
 20 25 30  
 Pro Trp Lys Thr Ile Thr Ile Ile Asp Tyr Tyr Leu Ser Leu Gly Phe  
 35 40 45  
 Leu Gly Trp Thr Gly Leu Ser Trp Val Val His Phe Gly Ala Ser Ala  
 50 55 60  
 Val Met Gly Arg Gln Trp Leu Gly Ser Leu Gln Arg Leu Pro Cys Ile  
 65 70 75 80  
 Ser Gly Ser

<210> 1097  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 1097  
 Met Gln Met Phe Thr Val Ser Leu Leu Leu Ser Leu Leu Leu Arg Ser  
 1 5 10 15  
 Thr Asp Gln Asn His Leu Gln Leu Leu Val Gly Arg Glu Asp His Tyr  
 20 25 30  
 Gly Gly

<210> 1098  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

<400> 1098  
 Met Arg His Thr Cys Ile Val Asn Ile Ala Ala Ser Leu Leu Val Ala  
 1 5 10 15  
 Asn Thr Trp Phe Ile Val Val Ala Ala Ile Gln Asp Asn Arg Tyr Ile  
 20 25 30  
 Leu Cys Lys Thr Ala Cys Val Ala Ala Thr Phe Phe Ile His Phe Phe  
 35 40 45

Tyr Leu Ser Val Phe Phe Trp Met Leu Thr Leu Gly Pro His Ala Val  
50 55 60

Leu Ser Pro Gly Phe His Ser Ala  
65 70

<210> 1099  
<211> 116  
<212> PRT  
<213> Homo sapiens

<400> 1099  
Met Ala Gly Leu Ile Phe Val Leu His Ser Cys Phe Arg Phe Ile Thr  
1 5 10 15

Phe Val Cys Pro Thr Ser Ser Asp Pro Leu Arg Thr Cys Ala Val Leu  
20 25 30

Leu Cys Val Gly Tyr Gln Asp Leu Pro Asn Pro Val Phe Arg Tyr Leu  
35 40 45

Gln Ser Val Asn Glu Leu Leu Ser Thr Leu Leu Asn Ser Asp Ser Pro  
50 55 60

Gln Gln Val Leu Gln Phe Val Pro Met Glu Val Leu Leu Lys Gly Ala  
65 70 75 80

Leu Leu Asp Phe Leu Trp Asp Leu Asn Ala Ala Ile Ala Lys Arg His  
85 90 95

Leu His Phe Ile Ile Gln Arg Glu Arg Glu Glu Ile Ile Asn Ser Leu  
100 105 110

Gln Leu Gln Asn  
115

<210> 1100  
<211> 80  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 1100  
Met Thr His Cys Leu Leu His Gly Met Gly Xa Ala Gly Ala Ala Ser  
1 5 10 15

Leu Thr Pro Lys Pro Met Ser Leu Ile Ser Ala Tyr Cys Gly Gly Leu  
20 25 30

Trp Leu Ala Ala Val Ala Val Met Val Gln Met Ala Ala Leu Cys Gly  
35 40 45  
Ala Gln Asp Ile Gln Asp Lys Phe Ser Ser Ile Leu Ser Arg Gly Gln  
50 55 60  
Glu Ala Tyr Glu Arg Leu Leu Trp Asn Gly Glu Phe Gly Glu Pro Lys  
65 70 75 80

<210> 1101  
<211> 309  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (129)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (178)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (187)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (262)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (308)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 1101  
Met Phe Thr Ile Lys Leu Leu Leu Phe Ile Val Pro Leu Val Ile Ser  
1 5 10 15  
Ser Arg Ile Asp Gln Asp Asn Ser Ser Phe Asp Ser Leu Ser Pro Glu  
20 25 30  
Pro Lys Ser Arg Phe Ala Met Leu Asp Asp Val Lys Ile Leu Ala Asn  
35 40 45  
Gly Leu Leu Gln Leu Gly His Gly Leu Lys Asp Phe Val His Lys Thr  
50 55 60

Lys Gly Gln Ile Asn Asp Ile Phe Gln Lys Leu Asn Ile Phe Asp Gln  
 65 70 75 80  
 Ser Phe Tyr Asp Leu Ser Leu Gln Thr Ser Glu Ile Lys Glu Glu Glu  
 85 90 95  
 Lys Glu Leu Arg Arg Thr Thr Tyr Lys Leu Gln Val Lys Asn Glu Glu  
 100 105 110  
 Val Lys Asn Met Ser Leu Glu Leu Asn Ser Lys Leu Glu Ser Leu Leu  
 115 120 125  
 Xaa Glu Lys Ile Leu Leu Gln Gln Lys Val Lys Tyr Leu Glu Glu Gln  
 130 135 140  
 Leu Thr Asn Leu Ile Gln Asn Gln Pro Glu Thr Pro Glu His Pro Glu  
 145 150 155 160  
 Val Thr Ser Leu Lys Thr Phe Val Glu Lys Gln Asp Asn Ser Ile Lys  
 165 170 175  
 Asp Xaa Leu Gln Thr Val Glu Asp Gln Tyr Xaa Gln Leu Asn Gln Gln  
 180 185 190  
 His Ser Gln Ile Lys Glu Ile Glu Asn Gln Leu Arg Arg Thr Ser Ile  
 195 200 205  
 Gln Glu Pro Thr Glu Ile Ser Leu Ser Ser Lys Pro Arg Ala Pro Arg  
 210 215 220  
 Thr Thr Pro Phe Leu Gln Leu Asn Glu Ile Arg Asn Val Lys His Asp  
 225 230 235 240  
 Gly Ile Pro Ala Glu Cys Thr Thr Ile Tyr Asn Arg Gly Glu His Thr  
 245 250 255  
 Ser Gly Met Tyr Ala Xaa Arg Pro Ser Asn Ser Gln Val Phe His Val  
 260 265 270  
 Tyr Cys Asp Val Ile Ser Gly Ser Pro Trp Thr Leu Ile Gln His Arg  
 275 280 285  
 Ile Asp Gly Ser Gln Asn Phe Asn Glu Thr Trp Glu Asn Tyr Lys Tyr  
 290 295 300  
 Gly Phe Gly Xaa Ala  
 305

<210> 1102  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1102

Met Ile Asn Phe Trp Pro Val Thr His Val Cys Ile Trp Leu Leu Trp  
 1 5 10 15  
 Leu Gln Ala Leu Glu Ala Arg Gly Gln Gly Ser Asn Ile Asp Cys Thr  
 20 25 30  
 Arg Asn Ser Lys Thr Val Phe Thr Ser  
 35 40

<210> 1103  
 <211> 201  
 <212> PRT  
 <213> Homo sapiens

<400> 1103  
 Met Thr Leu Arg Pro Ser Leu Leu Pro Leu His Leu Leu Leu Leu  
 1 5 10 15  
 Leu Leu Ser Ala Ala Val Cys Arg Ala Glu Ala Gly Leu Glu Thr Glu  
 20 25 30  
 Ser Pro Val Arg Thr Leu Gln Val Glu Thr Leu Val Glu Pro Pro Glu  
 35 40 45  
 Pro Cys Ala Glu Pro Ala Ala Phe Gly Asp Thr Leu His Ile His Tyr  
 50 55 60  
 Thr Gly Ser Leu Val Asp Gly Arg Ile Ile Asp Thr Ser Leu Thr Arg  
 65 70 75 80  
 Asp Pro Leu Val Ile Glu Leu Gly Gln Lys Gln Val Ile Pro Gly Leu  
 85 90 95  
 Glu Gln Ser Leu Leu Asp Met Cys Val Gly Glu Lys Arg Arg Ala Ile  
 100 105 110  
 Ile Pro Ser His Leu Ala Tyr Gly Lys Arg Gly Phe Pro Pro Ser Val  
 115 120 125  
 Pro Ala Asp Ala Val Val Gln Tyr Asp Val Glu Leu Ile Ala Leu Ile  
 130 135 140  
 Arg Ala Asn Tyr Trp Leu Lys Leu Val Lys Gly Ile Leu Pro Leu Val  
 145 150 155 160  
 Gly Met Ala Met Val Pro Ala Leu Leu Gly Leu Ile Gly Tyr His Leu  
 165 170 175  
 Tyr Arg Lys Ala Asn Arg Pro Lys Val Ser Lys Lys Lys Leu Lys Glu  
 180 185 190  
 Glu Lys Arg Asn Lys Ser Lys Lys Lys  
 195 200

<210> 1104  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 1104  
 Met Pro Pro Lys Gln Ile Pro Leu Thr Ser Leu Ser Leu Leu Ala Leu  
   1                  5                  10                  15  
 Leu Leu Phe Phe Phe Phe Lys Ile Phe Cys Leu Leu Phe Leu Phe Tyr  
                   20                  25                  30  
 Pro Leu Pro Asp Glu Ser Glu His Phe  
           35                  40

<210> 1105  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 1105  
 Met Asn Leu Leu His Cys Leu Tyr Met Ile Asn Ile Ile Ile Tyr Ile  
   1                  5                  10                  15  
 Phe Cys Ile Lys Leu Ile Trp Leu His Leu Ser Cys Ile Leu Ser His  
                   20                  25                  30  
 Ile Ser Phe Ile Ser Ser Met Asp Met Ser Arg Ser Leu Tyr Trp Ser  
           35                  40                  45  
 Pro Val Cys Ala Val  
           50

<210> 1106  
 <211> 355  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (331)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (338)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (345)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1106  
 Met Ala Gln Leu Glu Gly Tyr Tyr Phe Ser Ala Ala Leu Ser Cys Thr  
 1 5 10 15  
 Phe Leu Val Ser Cys Leu Leu Phe Ser Ala Phe Ser Arg Ala Leu Arg  
 20 25 30  
 Glu Pro Tyr Met Asp Glu Ile Phe His Leu Pro Gln Ala Gln Arg Tyr  
 35 40 45  
 Cys Glu Gly His Phe Ser Leu Ser Gln Trp Asp Pro Met Ile Thr Thr  
 50 55 60  
 Leu Pro Gly Leu Tyr Leu Val Ser Ile Gly Val Ile Lys Pro Ala Ile  
 65 70 75 80  
 Trp Ile Phe Gly Trp Ser Glu His Val Val Cys Ser Ile Gly Met Leu  
 85 90 95  
 Arg Phe Val Asn Leu Leu Phe Ser Val Gly Asn Phe Tyr Leu Leu Tyr  
 100 105 110  
 Leu Leu Phe Cys Lys Val Gln Pro Arg Asn Lys Ala Ala Ser Ser Ile  
 115 120 125  
 Gln Arg Val Leu Ser Thr Leu Thr Leu Ala Val Phe Pro Thr Leu Tyr  
 130 135 140  
 Phe Phe Asn Phe Leu Tyr Tyr Thr Glu Ala Gly Ser Met Phe Phe Thr  
 145 150 155 160  
 Leu Phe Ala Tyr Leu Met Cys Leu Tyr Gly Asn His Lys Thr Ser Ala  
 165 170 175  
 Phe Leu Gly Phe Cys Gly Phe Met Phe Arg Gln Thr Asn Ile Ile Trp  
 180 185 190  
 Ala Val Phe Cys Ala Gly Asn Val Ile Ala Gln Lys Leu Thr Glu Ala  
 195 200 205  
 Trp Lys Thr Glu Leu Gln Lys Lys Glu Asp Arg Leu Pro Pro Ile Lys  
 210 215 220  
 Gly Pro Phe Ala Glu Phe Arg Lys Ile Leu Gln Phe Leu Leu Ala Tyr  
 225 230 235 240  
 Ser Met Ser Phe Lys Asn Leu Ser Met Leu Leu Leu Leu Thr Trp Pro  
 245 250 255  
 Tyr Ile Leu Leu Gly Phe Leu Phe Cys Ala Phe Val Val Val Asn Gly  
 260 265 270  
 Gly Ile Val Ile Gly Asp Arg Ser Ser His Glu Ala Cys Leu His Phe  
 275 280 285  
 Pro Gln Leu Phe Tyr Phe Phe Ser Phe Thr Leu Phe Phe Ser Phe Pro

290                      295                      300  
 His Leu Leu Ser Pro Ser Lys Ile Lys Thr Phe Pro Phe Leu Ser Leu  
 305                      310                      315                      320  
 Gly Asn Val Glu Phe Cys Phe Leu Val Val Xaa Leu Val Leu Cys Gly  
                     325                      330                      335  
 Phe Xaa Val Trp Glu Ile Pro Ile Xaa Gly Ser Arg Asn Thr Cys Leu  
                     340                      345                      350  
 Ala Asp Gln  
                     355

<210> 1107  
 <211> 354  
 <212> PRT  
 <213> Homo sapiens

<400> 1107  
 Met Ala Pro Ala Lys Ala Thr Asn Val Val Arg Leu Leu Leu Gly Ser  
   1                    5                    10                    15  
 Thr Ala Leu Trp Leu Ser Gln Leu Gly Ser Gly Thr Val Ala Ala Ser  
                     20                    25                    30  
 Lys Ser Val Thr Ala His Leu Ala Ala Lys Trp Pro Glu Thr Pro Leu  
                     35                    40                    45  
 Leu Leu Glu Ala Ser Glu Phe Met Ala Glu Glu Ser Asn Glu Lys Phe  
                     50                    55                    60  
 Trp Gln Phe Leu Glu Thr Val Gln Glu Leu Ala Ile Tyr Lys Gln Thr  
                     65                    70                    75                    80  
 Glu Ser Asp Tyr Ser Tyr Tyr Asn Leu Ile Leu Lys Lys Ala Gly Gln  
                     85                    90                    95  
 Phe Leu Asp Asn Leu His Ile Asn Leu Leu Lys Phe Ala Phe Ser Ile  
                     100                    105                    110  
 Arg Ala Tyr Ser Pro Ala Ile Gln Met Phe Gln Gln Ile Ala Ala Asp  
                     115                    120                    125  
 Glu Pro Pro Pro Asp Gly Cys Asn Ala Phe Val Val Ile His Lys Lys  
                     130                    135                    140  
 His Thr Cys Lys Ile Asn Glu Ile Lys Lys Leu Leu Lys Lys Ala Ala  
                     145                    150                    155                    160  
 Ser Arg Thr Arg Pro Tyr Leu Phe Lys Gly Asp His Lys Phe Pro Thr  
                     165                    170                    175  
 Asn Lys Glu Asn Leu Pro Val Val Ile Leu Tyr Ala Glu Met Gly Thr  
                     180                    185                    190



Arg Thr Phe Ser Ala Phe His Lys Val Leu Ser Glu Lys Ala Gln Asn  
 195 200 205  
 Glu Glu Ile Leu Tyr Val Leu Arg His Tyr Ile Gln Lys Pro Ser Ser  
 210 215 220  
 Arg Lys Met Tyr Leu Ser Gly Tyr Gly Val Glu Leu Ala Ile Lys Ser  
 225 230 235 240  
 Thr Glu Tyr Lys Ala Leu Asp Asp Thr Gln Val Lys Thr Val Thr Asn  
 245 250 255  
 Thr Thr Val Glu Asp Glu Thr Glu Thr Asn Glu Val Gln Gly Phe Leu  
 260 265 270  
 Phe Gly Lys Leu Lys Glu Ile Tyr Ser Asp Leu Arg Asp Asn Leu Thr  
 275 280 285  
 Ala Phe Gln Lys Tyr Leu Ile Glu Ser Asn Lys Gln Met Met Pro Leu  
 290 295 300  
 Lys Val Trp Glu Leu Gln Asp Leu Ser Phe Gln Ala Ala Ser Gln Ile  
 305 310 315 320  
 Met Ser Ala Pro Val Tyr Asp Ala Ile Lys Leu Met Lys Asp Ile Ser  
 325 330 335  
 Gln Asn Phe Pro Ile Lys Ala Arg Val Gln Met Ile Gly Asn Val Leu  
 340 345 350  
 Ile Gly

<210> 1108  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 1108  
 Met Ile Asn Cys Val Cys Val His Ala Cys Val Arg Ala Cys Gly Leu  
 1 5 10 15  
 Leu His Ser Leu Val Leu Leu Leu Ser Leu Ser Leu Ser Ser Ala Leu  
 20 25 30  
 Phe Ile Pro Trp Asp Thr Glu Ile Phe Lys  
 35 40

<210> 1109  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens



<211> 139  
 <212> PRT  
 <213> Homo sapiens

<400> 1112  
 Met Glu Ala Val Val Phe Val Phe Ser LeuLeu Asp Cys Cys Ala Leu  
   1                  5                  10                  15  
 Ile Phe Leu Ser Val Tyr Phe Ile Ile Thr Leu Ser Asp Leu Glu Cys  
                   20                  25                  30  
 Asp Tyr Ile Asn Ala Arg Ser Cys Cys Ser LysLeu Asn Lys Trp Val  
           35                  40                  45  
 Ile Pro Glu Leu Ile Gly His Thr Ile Val Thr Val Leu Leu Leu Met  
   50                  55                  60  
 Ser Leu His Trp Phe Ile Phe Leu Leu Asn Leu Pro Val Ala Thr Trp  
   65                  70                  75                  80  
 Asn Ile Tyr Arg Tyr Ile Met Val Pro Ser Gly Asn Met Gly Val Phe  
           85                  90                  95  
 Asp Pro Thr Glu Ile His Asn Arg Gly Gln Leu Lys Ser His MetLys  
           100                  105                  110  
 Glu Ala Met Ile Lys Leu Gly Phe His Leu Leu Cys Phe Phe Met Tyr  
   115                  120                  125  
 Leu Tyr Ser Met Ile Leu Ala Leu Ile Asn Asp  
   130                  135

<210> 1113  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 1113  
 Met Gly Arg Gln Ala Leu Leu Leu Leu Ala Leu Cys Ala Thr Gly Ala  
   1                  5                  10                  15  
 Gln Gly Leu Tyr Phe His Ile Gly Glu Thr Glu Lys ArgCys Phe Ile  
           20                  25                  30  
 Glu Glu Ile Pro Asp Glu Thr Met Val Ile Gly Gln Ala Gly  
   35                  40                  45

<210> 1114  
 <211> 125  
 <212> PRT  
 <213> Homo sapiens

<220>

<221> SITE  
 <222> (101)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1114  
 Met Leu Ser Gln Pro Arg Met Glu Ser Leu Asp Thr Pro Ala Ala Tyr  
           1                  5                  10                  15  
 Ser Leu Gly Leu Ala Leu Leu Gly Leu Gly Val Val Leu Val Leu Ser  
           20                  25                  30  
 Ser Phe Phe Ala Leu Gly Phe Ala Gly Thr Phe Leu Gly Asp Tyr Phe  
           35                  40                  45  
 Gly Ile Leu Lys Glu Ala Arg Val Thr Val He Pro Phe Asn Ile Leu  
           50                  55                  60  
 Asp Asn Pro Met Tyr Trp Gly Ser Thr Ala Asn Tyr Leu Gly Trp Ala  
           65                  70                  75                  80  
 Ile Met His Ala Ser Pro Thr Gly Leu Leu Leu Thr Wl Leu Val Ala  
                   85                  90                  95  
 Leu Thr Tyr Ile Xaa Ala Leu Leu Tyr Glu Glu Pro Phe Thr Ala Glu  
                   100                  105                  110  
 Ile Tyr Arg Gln Lys Ala Ser Gly Ser His Lys Arg Ser  
           115                  120                  125

<210> 1115  
 <211> 147  
 <212> PRT  
 <213> Homo sapiens

<400> 1115  
 Met Leu Gly Leu Pro Trp Lys Gly Gly Leu Ser Trp Ala Leu Leu Leu  
           1                  5                  10                  15  
 Leu Leu Leu Gly Ser Gln Ile Leu Leu Ile Tyr Ala Trp His Phe His  
           20                  25                  30  
 Glu Gln Arg Asp Cys Asp Glu His Asn Val Met Ala Arg Tyr Leu Pro  
           35                  40                  45  
 Ala Thr Val Glu Phe Ala Val His Thr Phe Asn Gln Gln Ser Lys Asp  
           50                  55                  60  
 Tyr Tyr Ala Tyr Arg Leu Gly His Ile Leu Asn Ser Trp Lys Glu Gln  
           65                  70                  75                  80  
 Val Glu Ser Lys Thr Val Phe Ser Met Glu Leu Leu Leu Gly Arg Thr  
                   85                  90                  95  
 Arg Cys Gly Lys Phe Glu Asp Asp Ile Asp Asn Cys His Phe Gln Glu  
           100                  105                  110

Ser Thr Glu Leu Asn Asn Thr Phe Thr Cys Phe Phe Thr Ile Ser Thr  
 115 120 125  
 Arg Pro Trp Met Thr Gln Phe Ser Leu Leu Asn Lys Thr Cys Leu Glu  
 130 135 140  
 Gly Phe His  
 145

<210> 1116  
 <211> 159  
 <212> PRT  
 <213> Homo sapiens

<400> 1116  
 Met Ala Gly Pro Gly Trp Thr Leu Leu Leu Leu Leu Leu Leu Leu  
 1 5 10 15  
 Leu Leu Gly Ser Met Ala Gly Tyr Gly Pro Gln Lys Lys Leu Asn Leu  
 20 25 30  
 Ser His Lys Gly Ile Gly Glu Pro Cys Gly Arg His Glu Glu Cys Gln  
 35 40 45  
 Ser Asn Cys Cys Thr Ile Asn Ser Leu Ala Pro His Thr Leu Cys Thr  
 50 55 60  
 Pro Lys Thr Ile Phe Leu Gln Cys Leu Pro Trp Arg Lys Pro Asn Gly  
 65 70 75 80  
 Tyr Arg Cys Ser His Asp Ser Glu Cys Gln Ser Ser Cys Cys Val Arg  
 85 90 95  
 Asn Asn Ser Pro Gln Glu Leu Cys Thr Pro Gln Ser Val Phe Leu Gln  
 100 105 110  
 Cys Val Pro Trp Arg Lys Pro Asn Gly Asp Phe Cys Ser Ser His Gln  
 115 120 125  
 Glu Cys His Ser Gln Cys Cys Ile Gln Leu Arg Glu Tyr Ser Pro Phe  
 130 135 140  
 Arg Cys Ile Pro Arg Thr Gly Ile Leu Ala Gln Cys Leu Pro Leu  
 145 150 155

<210> 1117  
 <211> 111  
 <212> PRT  
 <213> Homo sapiens

<400> 1117  
 Met Lys Ser Leu Leu Phe Thr Leu Ala Val Phe Met Leu Leu Ala Gln

1                      5                      10                      15  
 Leu Val Ser Gly Asn Trp Tyr Val Lys Lys Cys Leu Asn Asp Val Gly  
                     20                      25                      30  
 Ile Cys Lys Lys Lys Cys Lys Pro Glu Glu Met His Val Lys Asn Gly  
                     35                      40                      45  
 Trp Ala Met Cys Gly Lys Gln Arg Asp Cys Cys Val Pro Ala Asp Arg  
                     50                      55                      60  
 Arg Ala Asn Tyr Pro Val Phe Cys Val Gln Thr Lys Thr Thr Arg Ile  
                     65                      70                      75                      80  
 Ser Thr Val Thr Ala Thr Thr Ala Thr Thr Thr Leu Met Met Thr Thr  
                     85                      90                      95  
 Ala Ser Met Ser Ser Met Ala Pro Thr Pro Val Ser Pro Thr Gly  
                     100                      105                      110

<210> 1118  
 <211> 121  
 <212> PRT  
 <213> Homo sapiens

<400> 1118  
 Met Met Leu Pro Gln Trp Leu Leu Leu Leu Phe Leu Leu Phe Phe Phe  
                     1                      5                      10                      15  
 Leu Phe Leu Leu Thr Arg Gly Ser Leu Ser Pro Thr Lys Tyr Asn Leu  
                     20                      25                      30  
 Leu Glu Leu Lys Glu Ser Cys Ile Arg Asn Gln Asp Cys Glu Thr Gly  
                     35                      40                      45  
 Cys Cys Gln Arg Ala Pro Asp Asn Cys Glu Ser His Cys Ala Glu Lys  
                     50                      55                      60  
 Gly Ser Glu Gly Ser Leu Cys Gln Thr Gln Val Phe Ile Gly Gln Tyr  
                     65                      70                      75                      80  
 Arg Ala Cys Pro Cys Leu Arg Asn Leu Thr Cys Ile Tyr Ser Lys Asn  
                     85                      90                      95  
 Glu Lys Trp Leu Ser Ile Ala Tyr Gly Arg Cys Gln Lys Ile Gly Arg  
                     100                      105                      110  
 Gln Lys Leu Ala Lys Lys Met Phe Phe  
                     115                      120

<210> 1119  
 <211> 161  
 <212> PRT

<213> Homo sapiens

<400> 1119

Met Pro Thr Thr Leu Pro Ser Asp Leu Met Leu Leu Trp Leu Gly Leu  
1 5 10 15  
Pro Ser Leu Pro Ser Pro Val Glu Glu Glu Gly Arg Leu Val Lys Gly  
20 25 30  
Leu Arg Leu Thr Leu Ala Ala Pro Ala Ser Glu Val Leu Pro Asp Trp  
35 40 45  
Glu Asp Pro Pro Ser His Pro Thr Ala Trp Ala Gln Pro Arg Thr His  
50 55 60  
Gln Pro Asp Thr Pro Asn Ser Ile Lys Ser Gly Ile Tyr Ser Pro Cys  
65 70 75 80  
Gly Gly Ala Val Leu Arg Gly Ala Gly Ala Ile Val Leu Arg Lys Glu  
85 90 95  
Val Cys Pro Ser Val Arg Leu Ser Gly Arg Pro Gly Pro Lys Trp Gly  
100 105 110  
Arg Lys Arg Gly Thr Ala Arg Val Lys Ile Pro Ala Tyr Ser Gly Trp  
115 120 125  
Glu Tyr Val Gln Gly Gly Gly Ala Gln Ala Gly Val Gly Ala Gly Gly  
130 135 140  
Pro Ala Ala Ala Ala Pro Thr Arg Gly Pro Pro His Leu Gly Pro Tyr  
145 150 155 160  
Leu

<210> 1120

<211> 344

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1120

Met Asp Phe Leu Val Leu Phe Leu Phe Tyr Leu Ala Ser Val Leu Met  
1 5 10 15  
Gly Leu Val Leu Ile Cys Val Cys Ser Lys Thr His Ser Leu Lys Gly  
20 25 30  
Leu Ala Arg Gly Gly Ala Gln Ile Phe Ser Cys Ile Ile Pro Glu Cys  
35 40 45

Leu Gln Arg Ala Xaa His Gly Leu Leu His Tyr Leu Phe His Thr Arg  
 50 55 60  
 Asn His Thr Phe Ile Val Leu His Leu Val Leu Gln Gly Met Val Tyr  
 65 70 75 80  
 Thr Glu Tyr Thr Trp Glu Val Phe Gly Tyr Cys Gln Glu Leu Glu Leu  
 85 90 95  
 Ser Leu His Tyr Leu Leu Leu Pro Tyr Leu Leu Leu Gly Val Asn Leu  
 100 105 110  
 Phe Phe Phe Thr Leu Thr Cys Gly Thr Asn Pro Gly Ile Ile Thr Lys  
 115 120 125  
 Ala Asn Glu Leu Leu Phe Leu His Val Tyr Glu Phe Asp Glu Val Met  
 130 135 140  
 Phe Pro Lys Asn Val Arg Cys Ser Thr Cys Asp Leu Arg Lys Pro Ala  
 145 150 155 160  
 Arg Ser Lys His Cys Ser Val Cys Asn Trp Cys Val His Arg Phe Asp  
 165 170 175  
 His His Cys Val Trp Val Asn Asn Cys Ile Gly Ala Trp Asn Ile Arg  
 180 185 190  
 Tyr Phe Leu Ile Tyr Val Leu Thr Leu Thr Ala Ser Ala Ala Thr Val  
 195 200 205  
 Ala Ile Val Ser Thr Thr Phe Leu Val His Leu Val Val Met Ser Asp  
 210 215 220  
 Leu Tyr Gln Glu Thr Tyr Ile Asp Asp Leu Gly His Leu His Val Met  
 225 230 235 240  
 Asp Thr Val Phe Leu Ile Gln Tyr Leu Phe Leu Thr Phe Pro Arg Ile  
 245 250 255  
 Val Phe Met Leu Gly Phe Val Val Val Leu Ser Phe Leu Leu Gly Gly  
 260 265 270  
 Tyr Leu Leu Phe Val Leu Tyr Leu Ala Ala Thr Asn Gln Thr Thr Asn  
 275 280 285  
 Glu Trp Tyr Arg Gly Asp Trp Ala Trp Cys Gln Arg Cys Pro Leu Val  
 290 295 300  
 Ala Trp Pro Pro Ser Ala Glu Pro Gln Val His Arg Asn Ile His Ser  
 305 310 315 320  
 His Gly Leu Arg Ser Asn Leu Gln Glu Ile Phe Leu Pro Ala Phe Pro  
 325 330 335  
 Cys His Glu Arg Lys Lys Gln Glu  
 340



<210> 1121  
 <211> 79  
 <212> PRT  
 <213> Homo sapiens

<400> 1121  
 Met Leu Arg Leu Thr Gln Thr Phe Phe Phe Ile Ser Gln Thr Leu Leu  
   1                  5                  10                  15  
 Asp Trp Phe Leu Ala Ala Ala Leu Ala Leu Pro Asn Leu Cys Ser Pro  
           20                  25                  30  
 Leu Ala Ser Asn Phe Lys Ser Arg Gln Ile Ser Ser Val Pro Ile Gln  
           35                  40                  45  
 Pro Ser Gln Gly Thr Ser Arg Val Ala Leu Gln Ile Trp Cys Gly Ser  
       50                  55                  60  
 Cys Arg Met Arg Met Ser Ser Ser Thr Ile His Ile Leu Ala Leu  
   65                  70                  75

<210> 1122  
 <211> 291  
 <212> PRT  
 <213> Homo sapiens

<400> 1122  
 Met Leu Phe Leu Phe Ser Met Ala Thr Leu Leu Arg Thr Ser Phe Ser  
   1                  5                  10                  15  
 Asp Pro Gly Val Ile Pro Arg Ala Leu Pro Asp Glu Ala Ala Phe Ile  
           20                  25                  30  
 Glu Met Glu Ile Glu Ala Thr Asn Gly Ala Val Pro Gln Gly Gln Arg  
       35                  40                  45  
 Pro Pro Pro Arg Ile Lys Asn Phe Gln Ile Asn Asn Gln Ile Val Lys  
       50                  55                  60  
 Leu Lys Tyr Cys Tyr Thr Cys Lys Ile Phe Arg Pro Pro Arg Ala Ser  
   65                  70                  75                  80  
 His Cys Ser Ile Cys Asp Asn Cys Val Glu Arg Phe Asp His His Cys  
           85                  90                  95  
 Pro Trp Val Gly Asn Cys Val Gly Lys Arg Asn Tyr Arg Tyr Phe Tyr  
       100                  105                  110  
 Leu Phe Ile Leu Ser Leu Ser Leu Leu Thr Ile Tyr Val Phe Ala Phe  
       115                  120                  125  
 Asn Ile Val Tyr Val Ala Leu Lys Ser Leu Lys Ile Gly Phe Leu Glu

130		135		140
Thr Leu Lys Glu Thr	Pro Gly Thr Val	Leu Glu Val	Leu Ile Cys Phe	
145	150	155	160	
Phe Thr Leu Trp Ser	Val Val Gly Leu	Thr Gly Phe His	Thr Phe Leu	
	165	170	175	
Val Ala Leu Asn Gln	Thr Thr Asn Glu	Asp Ile Lys Gly	Ser Trp Thr	
	180	185	190	
Gly Lys Asn Arg Val	Gln Asn Pro Tyr	Ser His Gly Asn	Ile Val Lys	
	195	200	205	
Asn Cys Cys Glu Val	Leu Cys Gly Pro	Leu Pro Pro Ser	Val Leu Asp	
	210	215	220	
Arg Arg Gly Ile Leu	Pro Leu Glu Glu	Ser Gly Ser Arg	Pro Pro Ser	
225	230	235	240	
Thr Gln Glu Thr Ser	Ser Ser Leu Leu	Pro Gln Ser Pro	Ala Pro Thr	
	245	250	255	
Glu His Leu Asn Ser	Asn Glu Met Pro	Glu Asp Ser Ser	Thr Pro Glu	
	260	265	270	
Glu Met Pro Pro Pro	Glu Pro Pro Glu	Pro Pro Gln Glu	Ala Ala Glu	
	275	280	285	
Ala Glu Lys				
290				

<210> 1123

<211> 190

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1123

Met Lys Ala Ser	Gln Cys Cys Cys	Cys Leu Ser His	Leu Leu Ala Ser
1	5	10	15

Val Leu Leu Leu	Leu Leu Leu	Pro Glu Leu	Ser Gly Xaa	Leu Xaa Val
20	25	30		

Leu Leu Gln Ala	Ala Glu Ala	Ala Pro Gly	Leu Gly Pro	Pro Asp Pro
-----------------	-------------	-------------	-------------	-------------

35                      40                      45  
 Arg Pro Arg Thr Leu Pro Pro Leu Pro Pro Gly Pro Thr Pro Ala Gln  
       50                      55                      60  
 Gln Pro Gly Arg Gly Leu Ala Glu Ala Ala Gly Pro Arg Gly Ser Glu  
       65                      70                      75                      80  
 Gly Gly Asn Gly Ser Asn Pro Val Ala Gly Leu Glu Thr Asp Asp His  
                                  85                      90                      95  
 Gly Gly Lys Ala Gly Glu Gly Ser Val Gly Gly Gly Leu Ala Val Ser  
                                  100                      105                      110  
 Pro Asn Pro Gly Asp Lys Pro Met Thr Gln Arg Ala Leu Thr Val Leu  
                                  115                      120                      125  
 Met Val Val Ser Gly Ala Val Leu Val Tyr Phe Val Val Arg Thr Val  
       130                      135                      140  
 Arg Met Arg Arg Arg Asn Arg Lys Thr Arg Arg Tyr Gly Val Leu Asp  
       145                      150                      155                      160  
 Thr Asn Ile Glu Asn Met Glu Leu Thr Pro Leu Glu Gln Asp Asp Glu  
                                  165                      170                      175  
 Asp Asp Asp Asn Thr Leu Phe Asp Ala Asn His Pro Arg Arg  
                                  180                      185                      190

<210> 1124  
 <211> 123  
 <212> PRT  
 <213> Homo sapiens

<400> 1124  
 Met Lys Leu Leu Leu Ala Leu Pro Met Leu Val Leu Leu Pro Gln  
       1                      5                      10                      15  
 Val Ile Pro Ala Tyr Ser Gly Glu Lys Lys Cys Trp Asn Arg Ser Gly  
                                  20                      25                      30  
 His Cys Arg Lys Gln Cys Lys Asp Gly Glu Ala Val Lys Asp Thr Cys  
                                  35                      40                      45  
 Lys Asn Leu Arg Ala Cys Cys Ile Pro Ser Asn Glu Asp His Arg Arg  
       50                      55                      60  
 Val Pro Ala Thr Ser Pro Thr Pro Leu Ser Asp Ser Thr Pro Gly Ile  
       65                      70                      75                      80  
 Ile Asp Asp Ile Leu Thr Val Arg Phe Thr Thr Asp Tyr Phe Glu Val  
                                  85                      90                      95  
 Ser Ser Lys Lys Asp Met Val Glu Glu Ser Glu Ala Gly Arg Gly Thr  
                                  100                      105                      110

Glu Thr Ser Leu Pro Asn Val His His Ser Ser  
 115 120

<210> 1125  
 <211> 121  
 <212> PRT  
 <213> Homo sapiens

<400> 1125  
 Met His Arg Ser Glu Pro Phe Leu Lys Met Ser Leu Leu Ile Leu Leu  
 1 5 10 15  
 Phe Leu Gly Leu Ala Glu Ala Cys Thr Pro Arg Glu Val Asn Leu Leu  
 20 25 30  
 Lys Gly Ile Ile Gly Leu Met Ser Arg Leu Ser Pro Asp Glu Ile Leu  
 35 40 45  
 Gly Leu Leu Ser Leu Gln Val Leu His Glu Glu Thr Ser Gly Cys Lys  
 50 55 60  
 Glu Glu Val Lys Pro Phe Ser Gly Thr Thr Pro Ser Arg Lys Pro Leu  
 65 70 75 80  
 Pro Lys Arg Lys Asn Thr Trp Asn Phe Leu Lys Cys Ala Tyr Met Val  
 85 90 95  
 Met Thr Tyr Leu Phe Val Ser Tyr Asn Lys Gly Asp Trp Phe Thr Phe  
 100 105 110  
 Ser Ser Gln Val Leu Leu Pro Leu Leu  
 115 120

<210> 1126  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (41)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1126  
 Met Ile Leu Phe Asp Leu Thr Phe Phe Leu Phe Ala Pro Arg Ile Leu  
 1 5 10 15  
 Ala Ser Gly Ala Cys Ser Cys Ser Ile Tyr Pro Lys Ile Thr Leu Pro  
 20 25 30  
 Thr Lys Tyr Phe Ala Phe Ile Ile Xaa Thr Ser Phe  
 35 40

<210> 1127  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 1127  
 Met Val Ser Phe His Phe Gln Cys Thr Ser Tyr Phe Val Arg Leu Phe  
           1                  5                  10                  15  
 Phe Gln Leu Gln Leu Phe Val Gly Leu Val Ile Val Leu Ala Leu Leu  
                   20                  25                  30  
 Ile Ser His Ser Leu Thr Tyr Ser Phe His Lys His Leu  
           35                  40                  45

<210> 1128  
 <211> 71  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (22)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (57)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (70)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1128  
 Met Ser Leu Leu Leu Pro Pro Leu Ala Leu Leu Leu Leu Ala Ala  
           1                  5                  10                  15  
 Leu Val Xaa Pro Ala Xaa Ala Ala Thr Ala Tyr Arg Pro Asp Trp Asn  
                   20                  25                  30  
 Arg Leu Ser Gly Leu Thr Arg Ala Arg Val Glu Thr Cys Gly Gly Met  
           35                  40                  45  
 Thr Ala Glu Pro Pro Lys Gly Glu Xaa Arg Leu Ser Ser Arg Arg Thr  
           50                  55                  60

Phe His Ser Ile Thr Xaa Trp  
 65 70

<210> 1129  
 <211> 179  
 <212> PRT  
 <213> Homo sapiens

<400> 1129  
 Met Ala Cys Lys Gly Leu Leu Gln Gln Val Gln Gly Pro Arg Leu Pro  
 1 5 10 15  
 Trp Thr Arg Leu Leu Leu Leu Leu Val Phe Ala Val Gly Phe Leu  
 20 25 30  
 Cys His Asp Leu Arg Ser His Ser Ser Phe Gln Ala Ser Leu Thr Gly  
 35 40 45  
 Arg Leu Leu Arg Ser Ser Gly Phe Leu Pro Ala Ser Gln Gln Ala Cys  
 50 55 60  
 Ala Lys Leu Tyr Ser Tyr Ser Leu Gln Gly Tyr Ser Trp Leu Gly Glu  
 65 70 75 80  
 Thr Leu Pro Leu Trp Gly Ser His Leu Leu Thr Val Val Arg Pro Ser  
 85 90 95  
 Leu Gln Leu Ala Trp Ala His Thr Asn Ala Thr Val Ser Phe Leu Ser  
 100 105 110  
 Ala His Cys Ala Ser His Leu Ala Trp Phe Gly Asp Ser Leu Thr Ser  
 115 120 125  
 Leu Ser Gln Arg Leu Gln Ile Gln Leu Pro Asp Ser Val Asn Gln Leu  
 130 135 140  
 Leu Arg Tyr Leu Arg Glu Leu Pro Leu Leu Phe His Gln Asn Val Leu  
 145 150 155 160  
 Leu Pro Leu Trp His Leu Leu Leu Glu Ala Leu Ala Trp Ala Gln Gly  
 165 170 175  
 Ala Leu Pro

<210> 1130  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE

<222> (61)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1130  
 Met Ala Val Leu Leu Ile Thr Ile Leu Leu Phe Leu Cys Leu Gly Tyr  
           1                  5                  10                  15  
 Tyr Arg Val Ile Thr Glu Ile Ser Arg Lys Thr Pro Ala Cys Arg Met  
                   20                  25                  30  
 Phe Thr Ser Ser Leu Ser Ser Trp Tyr Ile Met Arg Lys Leu Tyr Asp  
           35                  40                  45  
 Thr Pro Gly Glu Val Phe Leu Ser His Ala Ile Val Xaa Phe Leu Lys  
           50                  55                  60

<210> 1131  
 <211> 229  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (206)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1131  
 Met Tyr Lys Leu Leu Leu Phe Asp Leu Leu Thr Val Leu Ala Val Ala  
           1                  5                  10                  15  
 Leu Leu Ile Gln Phe Pro Arg Lys Leu Leu Cys Gly Leu Cys Pro Gly  
                   20                  25                  30  
 Ala Leu Gly Arg Leu Ala Gly Thr Gln Glu Phe Gln Val Pro Asp Glu  
           35                  40                  45  
 Val Leu Gly Leu Ile Tyr Ala Gln Thr Val Val Trp Val Gly Ser Phe  
           50                  55                  60  
 Phe Cys Pro Leu Leu Pro Leu Leu Asn Thr Val Lys Phe Leu Leu Leu  
           65                  70                  75                  80  
 Phe Tyr Leu Lys Lys Leu Thr Leu Phe Ser Thr Cys Ser Pro Ala Ala  
                   85                  90                  95  
 Arg Thr Phe Arg Ala Ser Ala Ala Asn Phe Phe Phe Pro Leu Val Leu  
           100                  105                  110  
 Leu Leu Gly Leu Ala Ile Ser Ser Val Pro Leu Leu Tyr Ser Ile Phe  
           115                  120                  125  
 Leu Ile Pro Pro Ser Lys Leu Cys Gly Pro Phe Arg Gly Gln Ser Ser





Ser Tyr Asn Ser Cys Ala Glu Gln Ala Asp Gly Pro Leu Gly Arg Ser  
 20 25 30  
 Thr Cys Ser Ala Ala Pro Gly Thr Pro Gy Gly Ala Gln Asp Ser Ser  
 35 40 45  
 Met Ser Ser Leu Gln Ser Ser Arg Lys Pro His Thr  
 50 55 60

<210> 1134  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<400> 1134  
 Met Phe Cys Trp Ile Leu Val Cys Leu Ala Tyr Leu Lys Val Pro Leu  
 1 5 10 15  
 Leu Phe Phe Phe Phe Phe Phe Leu Ser Ala Leu Phe Cys Arg Thr Cys  
 20 25 30  
 Ser Asn Met Glu Asn Lys Ser Arg Arg Leu Ser Ser Asp Cys Tyr Leu  
 35 40 45  
 Cys Pro Lys Pro Pro Gln Thr Phe Met Leu Met Phe Tyr  
 50 55 60

<210> 1135  
 <211> 352  
 <212> PRT  
 <213> Homo sapiens

<400> 1135  
 Met Leu Cys Arg Leu Cys Trp Leu Val Ser Tyr Ser Leu Ala Val Leu  
 1 5 10 15  
 Leu Leu Gly Cys Leu Leu Phe Leu Arg Lys Ala Ala Lys Pro Ala Glu  
 20 25 30  
 Thr Pro Arg Pro Thr Ser Leu Ser Gly Ala Pro Pro Thr Pro Arg His  
 35 40 45  
 Ser Arg Cys Pro Pro Asn His Thr Val Ser Ser Ala Ser Leu Ser Leu  
 50 55 60  
 Pro Ser Arg His Arg Leu Phe Leu Thr Tyr Arg His Cys Arg Asn Phe  
 65 70 75 80  
 Ser Ile Leu Leu Glu Pro Ser Gly Cys Ser Lys Asp Thr Phe Leu Leu  
 85 90 95  
 Leu Ala Ile Lys Ser Gln Pro Gly His Val Glu Arg Arg Ala Ala Ile  
 100 105 110

Arg Ser Thr Trp Gly Arg Trp Gly Asp Gly Leu Gly Pro Ala Leu Lys  
 115 120 125  
 Leu Val Phe Leu Leu Gly Val Ala Gly Ser Ala Pro Pro Ala Gln Leu  
 130 135 140  
 Leu Ala Tyr Glu Ser Arg Glu Phe Asp Asp Ile Leu Gln Trp Asp Phe  
 145 150 155 160  
 Thr Glu Asp Phe Phe Asn Leu Thr Leu Lys Glu Leu His Leu Gln Arg  
 165 170 175  
 Trp Val Val Ala Ala Cys Pro Gln Ala His Phe Met Leu Lys Gly Asp  
 180 185 190  
 Asp Asp Val Phe Val His Val Pro Asn Val Leu Glu Phe Leu Asp Gly  
 195 200 205  
 Trp Asp Pro Ala Gln Asp Leu Leu Val Gly Asp Val Ile Arg Gln Ala  
 210 215 220  
 Leu Pro Asn Arg Asn Thr Lys Val Lys Tyr Phe Ile Pro Pro Ser Met  
 225 230 235 240  
 Tyr Arg Ala Thr His Tyr Pro Pro Tyr Ala Gly Gly Gly Tyr Val  
 245 250 255  
 Met Ser Arg Ala Thr Val Arg Arg Leu Gln Ala Ile Met Glu Asp Ala  
 260 265 270  
 Glu Leu Phe Pro Ile Asp Asp Val Phe Val Gly Met Cys Leu Arg Arg  
 275 280 285  
 Leu Gly Leu Ser Pro Met His His Ala Gly Phe Lys Thr Phe Gly Ile  
 290 295 300  
 Arg Arg Pro Leu Asp Pro Leu Asp Pro Cys Leu Tyr Arg Gly Leu Leu  
 305 310 315 320  
 Leu Val His Arg Leu Ser Pro Leu Glu Met Trp Thr Met Trp Ala Leu  
 325 330 335  
 Val Thr Asp Glu Gly Leu Lys Cys Ala Ala Gly Pro Ile Pro Gln Arg  
 340 345 350

<210> 1136  
 <211> 209  
 <212> PRT  
 <213> Homo sapiens  
 <220>

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<221> SITE
<222> (181)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (200)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (207)
<223> Xaa equals any of the naturally occurring amino acids

<400> 1136
Met Tyr Phe Leu Phe Phe Phe Ala Phe Phe Phe Phe Pro Leu Phe Cys
 1           5           10           15

Tyr Cys Phe Asn Tyr Asn Lys Arg Ala Arg Gly Ser Gln Ala Leu Ala
      20           25           30

Arg Ser Trp Arg Pro Met Gly Val Leu Gly Arg Gly Arg Gly Glu Val
      35           40           45

Ser Gly Gly Gln Arg Trp Arg Val Lys Asn Glu Lys Val Gly Glu Leu
      50           55           60

Gly Leu Ala Gln Glu Pro Cys Val Pro Ala His Ser Pro Pro Ser Leu
      65           70           75           80

Pro Leu Pro Thr Ser Leu Pro Leu His Gly Phe Ser Pro Pro Leu Pro
      85           90           95

Glu Ser Tyr Gly Thr Gly Pro Cys Ser Ser Gly Ile Gln Leu Leu Pro
      100          105          110

Ala His Ser Ser Ser Trp Ala Thr Ser Pro Pro Thr Phe Asp Val Ser
      115          120          125

Pro Pro Val Ala Thr Leu Gln Leu Ala Phe Gln Ala Pro Ser Arg Gly
      130          135          140

Arg Pro Leu Pro Arg Pro Leu Thr His Val Ala Ile Pro Thr Trp Leu
      145          150          155          160

Pro Val Met Ser Leu Leu Ser Lys Pro Ser Cys Pro Leu Phe Leu Pro
      165          170          175

Pro Arg His Ala Xaa Thr Lys Trp Trp Lys Pro Pro Leu Ser Pro Ser
      180          185          190

Leu Pro Cys Ala Glu Phe Ser Xaa Val Leu Asn Glu Gly Glu Xaa Asp
      195          200          205

Lys

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<210> 1137  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 1137  
 Met Val Lys Trp Ile Ile Leu Ser Cys Leu Ile Leu Lys Gly Lys Arg  
           1                  5                  10                  15  
 Thr Leu Asn Ser Ser Thr Phe Tyr Ala Ala Asn Lys Ser Ser Thr Ile  
                   20                  25                  30  
 Asn Arg Asn Leu Ser Trp Gln Ala Leu Pro Phe Thr His  
           35                  40                  45

<210> 1138  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 1138  
 Met Arg Ser Tyr Phe Pro Phe Ser Val Cys Pro Phe Pro Phe Cys Ser  
           1                  5                  10                  15  
 Pro Val Phe Phe Phe Val Phe Thr Asp Val Tyr Leu Cys Phe Phe Phe  
                   20                  25                  30  
 Val Phe Ala Val Gly Arg His Leu Ser Asp Pro Phe Pro Ile Leu Phe  
           35                  40                  45  
 Phe Thr His Lys Cys Pro Asp Val  
           50                  55

<210> 1139  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 1139  
 Met Leu Lys Leu Ala Thr Ile Leu Leu Thr Leu Leu Leu Lys Asn Leu  
           1                  5                  10                  15  
 Asp Ala Gly Leu Thr Asp Lys Leu Ser Arg Ser Asn Phe Ile Thr Asp  
           20                  25                  30  
 Phe Ile Leu Thr Lys Tyr  
           35

<210> 1140

<211> 47  
<212> PRT  
<213> Homo sapiens

<400> 1140  
Met Ser Leu Leu Leu Pro Pro Leu Ala Leu Leu Leu Leu Leu Ala Ala  
1 5 10 15  
Leu Val Ala Pro Ala Thr Ala Ala Thr Ala Tyr Arg Pro Asp Trp Asn  
20 25 30  
Arg Leu Ser Gly Leu Thr Arg Ala Arg Val Glu Thr Cys Gly Gly  
35 40 45

<210> 1141  
<211> 74  
<212> PRT  
<213> Homo sapiens

<400> 1141  
Met Val Leu Leu Leu Leu Leu Leu Gln Lys Ile Pro Gly Thr Pro  
1 5 10 15  
Leu Phe Gln Pro Gly Phe Leu Gly Trp Ala Gln Glu Ser Cys Gln Ile  
20 25 30  
Gln Ser Tyr Val Gly Ser Lys Leu Pro Leu Cys Cys Phe Cys Gln Ala  
35 40 45  
Arg Cys Gly His Ser Lys Phe Ile Cys Val Asn Lys Arg Lys Glu Glu  
50 55 60  
Pro Ser Gly Cys Asn Arg Thr Asp Ser Ser  
65 70

<210> 1142  
<211> 53  
<212> PRT  
<213> Homo sapiens

<400> 1142  
Met Ala Ala Leu Leu Leu Ala Gly Ile Cys Ile Leu Leu Asn Gly Val  
1 5 10 15  
Ile Pro Gln Asp Gln Ser Ile Val Arg Thr Ser Leu Ala Val Leu Gly  
20 25 30  
Lys Gly Cys Leu Ala Ala Ser Phe Asn Cys Ile Phe Leu Tyr Thr Gly  
35 40 45  
Asn Cys Ile Pro Gln  
50

<210> 1143  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<400> 1143  
 Met Ser Pro Cys Ala His Ile Cys Leu Tyr Val Leu Val Phe Leu Cys  
           1                  5                  10                  15  
 Asn Val Thr Arg Cys Lys Cys Val Arg Ala Phe Thr Thr Trp Asp Thr  
                   20                  25                  30  
 Glu Lys Val Lys Tyr Phe Met Ala His Trp Ser Lys Leu Lys Arg Val  
                   35                  40                  45  
 Arg Gly Thr Arg Val Glu  
           50

<210> 1144  
 <211> 88  
 <212> PRT  
 <213> Homo sapiens

<400> 1144  
 Met Trp Pro Ser Gln Val Pro Leu Leu Ala Phe Cys Phe Leu Leu Val  
           1                  5                  10                  15  
 Lys Ser Thr Ser Asn Ile Asn Leu Pro Thr Pro Pro Pro Ser Ser Leu  
                   20                  25                  30  
 Glu Asn Ser Ser Phe Val Val Ser Gln Arg Gly Asn Leu Ile Val Phe  
                   35                  40                  45  
 Gly Gly Gln Lys Lys Ala Thr Phe Arg Tyr His Phe Tyr Leu Asp Arg  
           50                  55                  60  
 Met Pro Phe Tyr Ser Gln Ile Ser Val Tyr Phe Val Asn Gly Phe Arg  
           65                  70                  75                  80  
 Val Asn Gly Tyr Leu Cys Asn Asn  
                   85

<210> 1145  
 <211> 131  
 <212> PRT  
 <213> Homo sapiens

<400> 1145  
 Met Leu Trp Thr Leu Thr Phe Phe Leu Leu Gln Arg Ser Leu Thr Ser  
           1                  5                  10                  15

Pro Trp Leu Phe Gly Leu Leu Phe Leu Gly Ser Ser Asn Thr Ala Val  
                   20                  25                  30  
 Cys Cys Phe Leu Gly Gln Leu Ile Met Gly Pro Lys Gly Glu Arg Gly  
                   35                  40                  45  
 Phe Pro Gly Pro Pro Gly Arg Cys Leu Cys Gly Pro Thr Met Asn Val  
                   50                  55                  60  
 Asn Asn Pro Ser Tyr Gly Glu Ser Val Tyr Gly Pro Ser Ser Pro Arg  
                   65                  70                  75                  80  
 Val Pro Val Val Arg Leu Ser Gly Arg Ser Leu Gly Trp Leu Ser Val  
                   85                  90                  95  
 Arg Thr Ser His Leu Ile Leu Met Gly Leu Cys Lys Ile Leu Ser Val  
                   100                  105                  110  
 Lys Leu Thr Phe Phe His Asp Ser Glu Tyr Thr Leu Ile Ile Gly Asn  
                   115                  120                  125  
 Trp Lys Ile  
                   130

<210> 1146  
 <211> 549  
 <212> PRT  
 <213> Homo sapiens

<400> 1146  
 Met Gly Asn Ala Cys Ile Pro Leu Lys Arg Ile Ala Tyr Phe Leu Cys  
                   1                  5                  10                  15  
 Leu Leu Ser Ala Leu Leu Leu Thr Glu Gly Lys Lys Pro Ala Lys Pro  
                   20                  25                  30  
 Lys Cys Pro Ala Val Cys Thr Cys Thr Lys Asp Asn Ala Leu Cys Glu  
                   35                  40                  45  
 Asn Ala Arg Ser Ile Pro Arg Thr Val Pro Pro Asp Val Ile Ser Leu  
                   50                  55                  60  
 Ser Phe Val Arg Ser Gly Phe Thr Glu Ile Ser Glu Gly Ser Phe Leu  
                   65                  70                  75                  80  
 Phe Thr Pro Ser Leu Gln Leu Leu Leu Phe Thr Ser Asn Ser Phe Asp  
                   85                  90                  95  
 Val Ile Ser Asp Asp Ala Phe Ile Gly Leu Pro His Leu Glu Tyr Leu  
                   100                  105                  110  
 Phe Ile Glu Asn Asn Asn Ile Lys Ser Ile Ser Arg His Thr Phe Arg  
                   115                  120                  125  
 Gly Leu Lys Ser Leu Ile His Leu Ser Leu Ala Asn Asn Asn Leu Gln

130		135		140
Thr Leu Pro Lys Asp Ile Phe Lys Gly Leu Asp Ser Leu Thr Asn Val				
145		150		155 160
Asp Leu Arg Gly Asn Ser Phe Asn Cys Asp Cys Lys Leu Lys Trp Leu				
	165		170	175
Val Glu Trp Leu Gly His Thr Asn Ala Thr Val Glu Asp Ile Tyr Cys				
	180		185	190
Glu Gly Pro Pro Glu Tyr Lys Lys Arg Lys Ile Asn Ser Leu Ser Ser				
	195		200	205
Lys Asp Phe Asp Cys Ile Ile Thr Glu Phe Ala Lys Ser Gln Asp Leu				
	210		215	220
Pro Tyr Gln Ser Leu Ser Ile Asp Thr Phe Ser Tyr Leu Asn Asp Glu				
	225		230	235 240
Tyr Val Val Ile Ala Gln Pro Phe Thr Gly Lys Cys Ile Phe Leu Glu				
	245		250	255
Trp Asp His Val Glu Lys Thr Phe Arg Asn Tyr Asp Asn Ile Thr Gly				
	260		265	270
Thr Ser Thr Val Val Cys Lys Pro Ile Val Ile Glu Thr Gln Leu Tyr				
	275		280	285
Val Ile Val Ala Gln Leu Phe Gly Gly Ser His Ile Tyr Lys Arg Asp				
	290		295	300
Ser Phe Ala Asn Lys Phe Ile Lys Ile Gln Asp Ile Glu Ile Leu Lys				
	305		310	315 320
Ile Arg Lys Pro Asn Asp Ile Glu Thr Phe Lys Ile Glu Asn Asn Trp				
	325		330	335
Tyr Phe Val Val Ala Asp Ser Ser Lys Ala Gly Phe Thr Thr Ile Tyr				
	340		345	350
Lys Trp Asn Gly Asn Gly Phe Tyr Ser His Gln Ser Leu His Ala Trp				
	355		360	365
Tyr Arg Asp Thr Asp Val Glu Tyr Leu Glu Ile Val Arg Thr Pro Gln				
	370		375	380
Thr Leu Arg Thr Pro His Leu Ile Leu Ser Ser Ser Ser Gln Arg Pro				
	385		390	395 400
Val Ile Tyr Gln Trp Asn Lys Ala Thr Gln Leu Phe Thr Asn Gln Thr				
	405		410	415
Asp Ile Pro Asn Met Glu Asp Val Tyr Ala Val Lys His Phe Ser Val				
	420		425	430
Lys Gly Asp Val Tyr Ile Cys Leu Thr Arg Phe Ile Gly Asp Ser Lys				



435                      440                      445  
 Val Met Lys Trp Gly Gly Ser Ser Phe Gln Asp Ile Gln Arg Met Pro  
 450                      455                      460  
 Ser Arg Gly Ser Met Val Phe Gln Pro Leu Gln Ile Asn Asn Tyr Gln  
 465                      470                      475                      480  
 Tyr Ala Ile Leu Gly Ser Asp Tyr Ser Phe Thr Gln Val Tyr Asn Trp  
 485                      490                      495  
 Asp Ala Glu Lys Ala Lys Phe Val Lys Phe Gln Glu Leu Asn Val Gln  
 500                      505                      510  
 Ala Pro Arg Ser Phe Thr His Val Ser Ile Asn Lys Arg Asn Phe Leu  
 515                      520                      525  
 Phe Ala Ser Ser Phe Lys Gly Asn Thr Gln Ile Tyr Lys His Val Ile  
 530                      535                      540  
 Val Asp Leu Ser Ala  
 545

<210> 1147  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 1147  
 Met Leu Ser Pro Leu Asn His Leu Tyr Phe Pro Phe Arg Phe Leu Cys  
 1                      5                      10                      15  
 Met Leu Cys Ser Leu Pro Arg Val Val Phe Gln Leu Thr Pro Ile Lys  
 20                      25                      30  
 Glu Ala Phe Pro Ser Gln Glu Leu Thr Phe Pro Cys Thr His  
 35                      40                      45

<210> 1148  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<400> 1148  
 Met Leu Leu Gly Phe Leu Cys Leu Trp Tyr Gln Val Tyr Val Cys Met  
 1                      5                      10                      15  
 Tyr Val Cys Thr Tyr Leu Phe Ile Tyr Leu Leu Phe Ser Leu Phe Ser  
 20                      25                      30  
 Leu Pro His Met Ile Cys Lys Lys Ser Val Lys Phe Ile Met Ser Ser  
 35                      40                      45

Pro Lys Pro Pro Ser Gly  
50

<210> 1149

<211> 222

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1149

Met His Phe Gln Arg Gln Lys Leu Met Ala Val Thr Glu Tyr Ile Pro  
1 5 10 15

Pro Lys Pro Ala Ile His Pro Ser Cys Leu Pro Ser Pro Pro Ser Pro  
20 25 30

Pro Gln Glu Glu Ile Gly Leu Ile Arg Leu Leu Arg Arg Glu Ile Ala  
35 40 45

Ala Val Phe Gln Asp Asn Arg Met Ile Ala Val Cys Gln Asn Val Ala  
50 55 60

Leu Ser Ala Glu Asp Lys Leu Leu Met Arg His Gln Leu Arg Lys His  
65 70 75 80

Lys Ile Leu Met Lys Xaa Phe Pro Asn Gln Val Leu Lys Pro Phe Leu  
85 90 95

Glu Asp Ser Lys Tyr Gln Asn Leu Leu Pro Leu Phe Val Gly His Asn  
100 105 110

Met Leu Leu Val Ser Glu Glu Pro Lys Val Lys Glu Met Val Arg Ile  
115 120 125

Leu Arg Thr Val Pro Phe Leu Pro Leu Leu Gly Gly Cys Ile Asp Asp  
130 135 140

Thr Ile Leu Ser Arg Gln Gly Phe Ile Asn Tyr Ser Lys Leu Pro Ser  
145 150 155 160

Leu Pro Leu Val Gln Gly Glu Leu Val Gly Gly Leu Thr Cys Leu Thr  
165 170 175

Ala Gln Thr His Ser Leu Leu Gln His Gln Pro Leu Gln Leu Thr Thr  
180 185 190

Leu Leu Asp Gln Tyr Ile Arg Glu Gln Arg Glu Lys Asp Ser Val Met  
195 200 205

Ser Ala Asn Gly Lys Pro Asp Pro Asp Thr Val Pro Asp Ser  
210 215 220

<210> 1150  
 <211> 519  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (205)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (207)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (213)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (225)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1150  
 Met Gln Gly Gly Gln Arg Pro His Leu Leu Leu Leu Leu Ala Val  
     1                    5                    10                    15  
 Cys Leu Gly Ala Gln Ser Arg Asn Gln Glu Arg Leu Leu Ala Asp  
                     20                    25                    30  
 Leu Met Arg Asn Tyr Asp Pro His Leu Arg Pro Ala Glu Arg Asp Ser  
                     35                    40                    45  
 Asp Val Val Asn Val Ser Leu Lys Leu Thr Leu Thr Asn Leu Ile Ser  
                     50                    55                    60  
 Leu Asn Glu Arg Glu Glu Ala Leu Thr Thr Asn Val Trp Ile Glu Met  
                     65                    70                    75                    80  
 Gln Trp Cys Asp Tyr Arg Leu Arg Trp Asp Pro Lys Asp Tyr Glu Gly  
                     85                    90                    95  
 Leu Trp Ile Leu Arg Val Pro Ser Thr Met Val Trp Arg Pro Asp Ile  
                     100                    105                    110  
 Val Leu Glu Asn Asn Val Asp Gly Val Phe Glu Val Ala Leu Tyr Cys  
                     115                    120                    125  
 Asn Val Leu Val Ser Pro Asp Gly Cys Ile Tyr Trp Leu Pro Pro Ala  
                     130                    135                    140  
 Ile Phe Arg Ser Ser Cys Ser Ile Ser Val Thr Tyr Phe Pro Phe Asp

145                      150                      155                      160  
 Trp Gln Asn Cys Ser Leu Ile Phe Gln Ser Gln Thr Tyr Ser Thr Ser  
                                  165                      170                      175  
 Glu Ile Asn Leu Gln Leu Ser Gln Glu Asp Gly Gln Ala Ile Glu Trp  
                                  180                      185                      190  
 Ile Phe Ile Asp Pro Glu Ala Phe Thr Glu Asn Gly Xaa Trp Xaa Ile  
                                  195                      200                      205  
 Arg His Arg Pro Xaa Lys Met Leu Leu Asp Ser Val Ala Pro Ala Glu  
                                  210                      215                      220  
 Xaa Ala Gly His Gln Lys Val Val Phe Tyr Leu Leu Ile Gln Arg Lys  
                                  225                      230                      235                      240  
 Pro Leu Phe Tyr Val Ile Asn Ile Ile Ala Pro Cys Val Leu Ile Ser  
                                  245                      250                      255  
 Ser Val Ala Ile Leu Ile Tyr Phe Leu Pro Ala Lys Ala Gly Gly Gln  
                                  260                      265                      270  
 Lys Cys Thr Val Ala Thr Asn Val Leu Leu Ala Gln Thr Val Phe Leu  
                                  275                      280                      285  
 Phe Leu Val Ala Lys Lys Val Pro Glu Thr Ser Gln Ala Val Pro Leu  
                                  290                      295                      300  
 Ile Ser Lys Tyr Leu Thr Phe Leu Met Val Val Thr Ile Leu Ile Val  
                                  305                      310                      315                      320  
 Val Asn Ser Val Val Val Leu Asn Val Ser Leu Arg Ser Pro His Thr  
                                  325                      330                      335  
 His Ser Met Ala Arg Gly Val Arg Lys Val Phe Leu Arg Leu Leu Pro  
                                  340                      345                      350  
 Gln Leu Leu Arg Met His Val Arg Pro Leu Ala Pro Ala Ala Val Gln  
                                  355                      360                      365  
 Asp Ala Arg Phe Arg Leu Gln Asn Gly Ser Ser Ser Gly Trp Pro Ile  
                                  370                      375                      380  
 Met Ala Arg Glu Glu Gly Asp Leu Cys Leu Pro Arg Ser Glu Leu Leu  
                                  385                      390                      395                      400  
 Phe Arg Gln Arg Gln Arg Asn Gly Leu Val Gln Ala Val Leu Glu Lys  
                                  405                      410                      415  
 Leu Glu Asn Gly Pro Glu Val Arg Gln Ser Gln Glu Phe Cys Gly Ser  
                                  420                      425                      430  
 Leu Lys Gln Ala Ser Pro Ala Ile Gln Ala Cys Val Asp Ala Cys Asn  
                                  435                      440                      445  
 Leu Met Ala Arg Ala Arg Arg Gln Gln Ser His Phe Asp Ser Gly Asn

450                      455                      460  
 Glu Glu Trp Leu Leu Val Gly Arg Val Leu Asp Arg Val Cys Phe Leu  
 465                      470                      475                      480  
 Ala Met Leu Ser Leu Phe Ile Cys Gly Thr Ala Gly Ile Phe Leu Met  
                     485                      490                      495  
 Ala His Tyr Asn Gln Val Pro Asp Leu Pro Phe Pro Gly Asp Pro Arg  
                     500                      505                      510  
 Pro Tyr Leu Pro Leu Pro Asp  
                     515

<210> 1151  
 <211> 68  
 <212> PRT  
 <213> Homo sapiens

<400> 1151  
 Met Val His Asn Cys Leu Leu Leu Leu Lys Phe Leu Leu Leu Phe Cys  
   1                    5                    10                    15  
 Phe Pro Leu Ile Ser Tyr Gln Leu Met Asn Gly Ser Leu Gln Ser Leu  
                     20                    25                    30  
 Gln Arg Leu Arg Met Ile Gln Asn Val Gln Cys Ile Val Leu Asn Lys  
                     35                    40                    45  
 Gln Glu Ala Glu Phe Leu Met Gly Ile Ser Phe Gln Ile Tyr Asn Trp  
                     50                    55                    60  
 Ser Leu Gly Phe  
   65

<210> 1152  
 <211> 194  
 <212> PRT  
 <213> Homo sapiens

<400> 1152  
 Met Lys Leu Ala Ser Gly Phe Leu Val Leu Trp Leu Ser Leu Gly Gly  
   1                    5                    10                    15  
 Gly Leu Ala Gln Ser Asp Thr Ser Pro Asp Thr Glu Glu Ser Tyr Ser  
                     20                    25                    30  
 Asp Trp Gly Leu Arg His Leu Arg Gly Ser Phe Glu Ser Val Asn Ser  
                     35                    40                    45  
 Tyr Phe Asp Ser Phe Leu Glu Leu Leu Gly Gly Lys Asn Gly Val Cys  
                     50                    55                    60

Gln Tyr Arg Cys Arg Tyr Gly Lys Ala Pro Met Pro Arg Pro Gly Tyr  
 65 70 75 80  
 Lys Pro Gln Glu Pro Asn Gly Cys Gly Ser Tyr Phe Leu Gly Leu Lys  
 85 90 95  
 Val Pro Glu Ser Met Asp Leu Gly Ile Pro Ala Met Thr Lys Cys Cys  
 100 105 110  
 Asn Gln Leu Asp Val Cys Tyr Asp Thr Cys Gly Ala Asn Lys Tyr Arg  
 115 120 125  
 Cys Asp Ala Lys Phe Arg Trp Cys Leu His Ser Ile Cys Ser Asp Leu  
 130 135 140  
 Lys Arg Ser Leu Gly Phe Val Ser Lys Val Glu Ala Cys Asp Ser Leu  
 145 150 155 160  
 Val Asp Thr Val Phe Asn Thr Val Trp Thr Leu Gly Cys Arg Pro Phe  
 165 170 175  
 Met Asn Ser Gln Arg Ala Ala Cys Ile Cys Ala Glu Glu Lys Glu  
 180 185 190  
 Glu Leu

<210> 1153  
 <211> 79  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (23)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (45)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1153  
 Met Gly Cys Cys Ser Lys Lys Tyr Trp Gln Leu Leu Leu Gly Ala Ala  
 1 5 10 15  
 Pro Trp Gly Val Ile Pro Xaa Leu Leu Leu Trp Met Gly Thr Arg Ala  
 20 25 30  
 Pro His Phe Lys Asp Ser Val Ser Gln Gly Leu Pro Xaa Lys Ala Glu  
 35 40 45  
 Glu Ser Arg Ala Asn Phe Asn Gln Phe Leu Val Leu Leu Met Pro Lys  
 50 55 60

Glu Met Ile Val Leu Thr Ile Val His Pro Ile Val Arg Arg Ala  
 65 70 75

<210> 1154  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 1154  
 Met Leu Ile Ala Lys Leu Pro Val Leu Glu Ser Ile Cys Phe Phe Met  
 1 5 10 15  
 Leu Phe Leu Asn Pro Leu Val Ile Leu Leu Ser Leu Asn Asn Ala Leu  
 20 25 30  
 Pro Leu Val Phe His Pro His Ser Glu Phe Leu Glu Asp His Asn Arg  
 35 40 45  
 Gly Asp Thr Leu Pro Ser Ile Val  
 50 55

<210> 1155  
 <211> 79  
 <212> PRT  
 <213> Homo sapiens

<400> 1155  
 Met Met Ser Ser Cys Leu Val Val Val Ile Thr Leu Arg Ala Tyr Phe  
 1 5 10 15  
 Ser Trp Leu Gln Ala Ile Arg Ser Gln Val Val Trp Ser Arg Met Lys  
 20 25 30  
 Arg Leu Gln Ser Ala Ser Arg Gln Ser Gly Leu Ser Ile Pro Arg Ser  
 35 40 45  
 Glu Met Ser Ala Leu His Arg Leu Gln Asp Trp Ser Asp Lys Ser His  
 50 55 60  
 Ile Leu Phe Phe Ile Phe Leu Pro Arg Val Cys Arg Phe Pro Leu  
 65 70 75

<210> 1156  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 1156  
 Met Val Lys Val Gly Ala Trp Arg Ala Val Gln Ile Leu Met Leu Phe  
 1 5 10 15

Ala Asn Pro Gly His Ala Glu Gly Ala Cys Ile Ser Pro Gly Pro Ala  
 20 25 30

Gly Lys Arg Glu Pro Leu Lys Leu Gly  
 35 40

<210> 1157  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 1157  
 Met Ile Leu Leu Ile Ser Gln Cys Pro Leu Ser Ile Phe Ala Ala Pro  
 1 5 10 15

Phe Ala Leu Pro Pro Lys Gly His Cys Gly Ser Phe Ser Asp PheHis  
 20 25 30

Ser Gln Val Thr Leu His Lys Asn Ser Lys Leu Ile Phe Arg Ser His  
 35 40 45

Lys Ser Ile Leu Leu  
 50

<210> 1158  
 <211> 85  
 <212> PRT  
 <213> Homo sapiens

<400> 1158  
 Met Gly Phe Trp Cys Gly Cys Pro Phe Cys Leu Leu Val Val Leu Leu  
 1 5 10 15

Thr Asp Arg Thr Leu Ser Cys Arg Ser Val Gly Val Pro Cys Asn Val  
 20 25 30

Arg Cys Gln Cys Ala Pro Ala Gly Gly Cys Leu Pro Val Arg Leu Leu  
 35 40 45

Ala Gly Gln Gly Ser Gly Thr His Leu Arg Arg Gln Ser Ala Arg Ser  
 50 55 60

Gln Ile Ser Ser Cys Met Leu Gly Glu Pro Leu Leu Ser Ser Lys Leu  
 65 70 75 80

Ser Asp Arg Asp Ile  
 85

<210> 1159  
 <211> 64  
 <212> PRT



<213> Homo sapiens

<400> 1159

```
Met Glu Lys Leu Leu Thr Leu Tyr Leu Leu Leu Tyr Val Ser Tyr Trp
  1              5              10              15

Ser Val Ser Pro Thr Gly Gln Gly Ala Gly Leu Phe Ile Ala Gln Ser
              20              25              30

Ser Ala Pro Gly Leu Arg Gln Thr His Ser Arg His Leu Gly Asn Ala
              35              40              45

Trp Glu Arg Lys Glu Gly Arg Arg Glu Glu Gly Leu His Gly His Val
  50              55              60
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<210> 1160

<211> 128

<212> PRT

<213> Homo sapiens

<400> 1160

```
Met Tyr Glu Cys Phe Leu Ser Leu Ser Leu Leu Lys Ser Cys Lys Ala
  1              5              10              15

Val Ser Gly Leu Met Cys Leu Leu Leu Pro Arg Leu Gly Leu Leu Leu
              20              25              30

Leu Leu Pro Ser Glu Arg Cys Phe Cys Trp Ile Pro Val Tyr Ser Leu
              35              40              45

Ile Thr Cys Leu Ala Glu Cys Ser Val Val Leu Arg Asp Pro Gly Phe
  50              55              60

Ala Gly Ala Phe Gln Val His Arg Arg Gln Ala Cys Phe Ser Thr Leu
  65              70              75              80

Arg Trp Ser Cys Leu Leu Leu Trp Trp Val Ser Arg Val Ser Ala Gly
              85              90              95

Arg Pro Leu Ile Gly Ser Pro His Met Met Ala Pro Ser Thr Phe Cys
              100              105              110

Pro Thr Val Arg Gly Pro Gly Thr Cys Ala Ser Ser Asp Pro Asp Gly
  115              120              125
```

<210> 1161

<211> 67

<212> PRT  
 <213> Homo sapiens  
  
 <400> 1161  
 Met Gln Pro Ala Cys Leu Ala Pro Cys Leu Asp Ala Leu Thr Ser Phe  
   1                  5                  10                  15  
 Cys Leu Gly Leu Leu Lys Leu Thr Phe Cys Leu Ala Phe Phe Pro Ser  
           20                  25                  30  
 Gly Val Leu Glu Gly Glu Cys Ser Phe Phe Thr Met Ser Arg Ser Leu  
           35                  40                  45  
 Ser His Pro Arg Thr Leu His Arg Tyr Thr Thr Glu Arg Pro Ala His  
           50                  55                  60  
 Ser Arg His  
   65

<210> 1162  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1162  
 Met Ser Tyr Lys Trp Asn Ser Arg Val Cys Phe Leu Trp Ser Arg Thr  
   1                  5                  10                  15  
 Phe His Leu Met Leu Leu Arg Leu Ile Cys Leu Val Ala Tyr Ile Ser  
           20                  25                  30  
 Thr Glu Val Ile Ser Phe Ile Ala Glu  
           35                  40

<210> 1163  
 <211> 79  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1163  
 Met Thr Leu Met Cys Leu Cys Leu Ser Val Thr Val Leu His Pro Leu  
   1                  5                  10                  15  
 Arg Ser Lys Glu Arg Leu Ser Gly Thr Phe Cys Gly Tyr Ser Ser Ser  
           20                  25                  30  
 Trp Cys Ser Pro Ala Ser Glu Ser Ser Ser Pro Gly Ser Leu Leu Thr  
           35                  40                  45  
 Cys Ala Ala Ser Gly Ser His Pro Asp Cys Pro Leu Ser Gln Arg Leu  
           50                  55                  60  
 Leu Gly Val Gln Leu Ala Ala Leu Gly Arg Pro Gln Gly Leu Phe

65

70

75

<210> 1164  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 1164  
 Met Thr Ala Met Ser Ile His Leu Phe Cys Thr Ala ~~Eu~~ Ser Cys Gly  
           1                  5                  10                  15  
 Ser Ser Gly Gln Cys Asn Lys Ala Ile Lys Arg Asn Lys Ile Ser Asn  
           20                  25                  30  
 Asp Trp Lys Asp Val Asn Val Ser Ser Phe Ile Glu Asn ~~Met~~ Ile His  
           35                  40                  45  
 Arg Tyr Thr Tyr Thr Asn Ala Leu Asn Ser  
           50                  55

<210> 1165  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (27)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1165  
 Met Arg Pro Gly Ser Phe Ser Phe Ile Ala Phe Leu Ala Thr Glu Val  
           1                  5                  10                  15  
 Ser Ser Cys Phe Pro Gly Arg Pro Asp Cys Xaa Thr Gly Met Trp Leu  
           20                  25                  30  
 Leu Gln Leu Gln Lys Lys Gln Arg Thr Leu Leu Ala Met Ala Pro Arg  
           35                  40                  45  
 Arg

<210> 1166  
 <211> 68  
 <212> PRT  
 <213> Homo sapiens

<400> 1166  
 Met Lys Val Leu Ser Trp Ile His Phe Ile Leu Ile Ser Leu His Phe  
           1                  5                  10                  15

Thr Ser Ser Leu Asp Pro Ser Ser Arg Gly Leu Gly Thr Phe Thr Asp  
                   20                  25                  30  
 Ala Leu Pro Asp Ser Arg Ala Lys Val Trp Glu Gly Glu Met Glu Glu  
                   35                  40                  45  
 Cys Pro Pro Val Cys Val Val Leu Cys Ala Thr Ala Thr Asp Ala Glu  
           50                  55                  60  
 Gly Phe Ser Gly  
   65

<210> 1167  
 <211> 377  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (164)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (213)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1167  
 Met Ala Thr Ala Met Asp Trp Leu Pro Trp Ser Leu Leu Leu Phe Ser  
   1                  5                  10                  15  
 Leu Met Cys Glu Thr Ser Ala Phe Tyr Val Pro Gly Val Ala Pro Ile  
           20                  25                  30  
 Asn Phe His Gln Asn Asp Pro Val Glu Ile Lys Ala Val Lys Leu Thr  
           35                  40                  45  
 Ser Ser Arg Thr Gln Leu Pro Tyr Glu Tyr Tyr Ser Leu Pro Phe Cys  
           50                  55                  60  
 Gln Pro Ser Lys Ile Thr Tyr Lys Ala Glu Asn Leu Gly Glu Val Leu  
   65                  70                  75                  80  
 Arg Gly Asp Arg Ile Val Asn Thr Pro Phe Gln Val Leu Met Asn Ser  
                   85                  90                  95  
 Glu Lys Lys Cys Glu Val Leu Cys Ser Gln Ser Asn Lys Pro Val Thr  
           100                  105                  110  
 Leu Thr Val Glu Gln Ser Arg Leu Val Ala Glu Arg Ile Thr Glu Asp  
           115                  120                  125  
 Tyr Tyr Val His Leu Ile Ala Asp Asn Leu Pro Val Ala Thr Arg Leu  
   130                  135                  140

Glu Leu Tyr Ser Asn Arg Asp Ser Asp Asp Lys Lys Lys Glu Ser Asp  
 145 150 155 160  
 Ile Lys Trp Xaa Ser Arg Trp Asp Thr Tyr Leu Thr Met Ser Asp Val  
 165 170 175  
 Gln Ile His Trp Phe Ser Ile Ile Asn Ser Val Val Val Val Phe Phe  
 180 185 190  
 Leu Ser Gly Ile Leu Ser Met Ile Ile Ile Arg Thr Leu Arg Lys Asp  
 195 200 205  
 Ile Ala Asn Tyr Xaa Lys Glu Asp Asp Ile Glu Asp Thr Met Glu Glu  
 210 215 220  
 Ser Gly Trp Lys Leu Val His Gly Asp Val Phe Arg Pro Pro Pro Val  
 225 230 235 240  
 Pro His Asp Pro Gln Leu Pro Ala Gly Leu Arg His Ser Ala Val Leu  
 245 250 255  
 Tyr Asp Pro His Arg His Leu Cys Ser His Ala Trp Asp Ala Val Ala  
 260 265 270  
 Leu Gln Pro Gly Ser Ser His Asp His Ser Leu Leu Pro Leu His Val  
 275 280 285  
 His Gly Gly Val Trp Arg Ile Phe Cys Trp Pro Ser Val Pro His Phe  
 290 295 300  
 Lys Arg Pro Ser Val Glu Glu Arg Ser Leu Leu Tyr Gly Asn Ser Val  
 305 310 315 320  
 Pro Trp Cys Gly Phe Trp His Leu Leu Arg Ile Glu Leu Leu His Leu  
 325 330 335  
 Gly Lys Ala Leu Ile Arg Ser Gly Ala Leu Ser His His Gly Gly Ser  
 340 345 350  
 Ala Val His Val Val Arg Asp Leu Pro Ala Pro Arg Leu Leu Gly Leu  
 355 360 365  
 Leu Leu Arg Leu Pro Lys Ala Ala Ile  
 370 375

<210> 1168

<211> 26

<212> PRT

<213> Homo sapiens

<400> 1168

Met Phe His Ser Ser Leu Leu Val Phe Leu Ser Leu Leu Ser Gln Glu  
 1 5 10 15

Ile Phe Thr Glu Tyr Asp Cys Met His Lys  
 20 25

<210> 1169  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 1169  
 Met Trp Phe Leu His Trp Thr Leu Leu Gly Tyr Gly Pro Ala Gln Ile  
 1 5 10 15  
 Leu Gly Met Trp Ala Val Ala Pro Leu Lys His Gln Trp Ala Glu Asp  
 20 25 30  
 Glu Ser Trp Tyr Pro Pro Gly Thr Pro Pro Ser Ala Leu His Thr  
 35 40 45  
 Cys Asp Pro Gly Thr Ser Tyr  
 50 55

<210> 1170  
 <211> 166  
 <212> PRT  
 <213> Homo sapiens

<400> 1170  
 Met Ser Phe Thr Val Ser Met Ala Ile Gly Leu Val Leu Gly GlyPhe  
 1 5 10 15  
 Ile Trp Ala Val Phe Ile Cys Leu Ser Arg Arg Arg Arg Ala Ser Ala  
 20 25 30  
 Pro Ile Ser Gln Trp Ser Ser Ser Arg Arg Ser Arg Ser Ser Tyr Thr  
 35 40 45  
 His Gly Leu Asn Arg Thr Gly Phe Tyr Arg His Ser Gly Cys Glu Arg  
 50 55 60  
 Arg Ser Asn Leu Ser Leu Ala Ser Leu Thr Phe Gln Arg Gln Ala Ser  
 65 70 75 80  
 Leu Glu Gln Ala Asn Ser Phe Pro Arg Lys Ser Ser Phe Arg Ala Ser  
 85 90 95  
 Thr Phe His Pro Phe Leu Gln Cys Pro Pro Leu Pro Val Glu Thr Glu  
 100 105 110  
 Ser Gln Leu Val Thr Leu Pro Ser Ser Asn Ile Ser Pro Thr Ile Ser  
 115 120 125  
 Thr Ser His Ser Leu Ser Arg Pro Asp Tyr Trp Ser Ser Asn Ser Leu  
 130 135 140

Arg Val Gly Leu Ser Thr Pro Pro Pro Pro Ala Tyr Glu Ser Ile Ile  
 145 150 155 160

Lys Ala Phe Pro Asp Ser  
 165

<210> 1171  
 <211> 79  
 <212> PRT  
 <213> Homo sapiens

<400> 1171  
 Met Leu Ser Leu Asp Phe Leu Asp Asp Val Arg Arg Met Asn Lys Arg  
 1 5 10 15

Gln Val Ser Leu Ser Val Leu Phe Phe Ser Trp Leu Phe Leu Ser Leu  
 20 25 30

Arg Gly Cys Cys Cys Gly Ala Arg Arg Thr Pro Gly Phe Trp Cys Glu  
 35 40 45

Gly Leu Ser Trp Ser Asp Thr Arg Val Ile Arg Phe Leu Trp Arg Leu  
 50 55 60

Trp Pro Glu Ala Ala Leu Ser Ala Ser Leu Phe Leu Thr Pro Asn  
 65 70 75

<210> 1172  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (22)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1172  
 Met Asn Arg Gly Gln Arg Leu Cys Leu Ala Phe Val Ser Leu Phe Pro  
 1 5 10 15

Pro Cys Asn Ser Leu Xaa Pro Pro Pro Thr Leu Phe Pro Ser Pro Leu  
 20 25 30

Leu Pro Leu Ser Leu Thr Ser Pro Thr Pro His Ser Leu Ser Ser Leu  
 35 40 45

Ala Val Ser Cys Val Cys Val Gly Val Cys Val Phe Gly Cys Val Asn  
 50 55 60

Val Gly Ser Ser Thr Thr Gly Phe Cys Asn Leu Gly  
 65 70 75

<210> 1173  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens

<400> 1173  
 Met Tyr Leu Ile His Leu Tyr Gln Val Leu Lys Tyr Leu Asp Lys Ser  
           1                  5                  10                  15  
 Lys Tyr Phe Val Phe Ser Phe Phe Leu Leu Ser Ile Leu Leu Thr Thr  
                   20                  25                  30  
 Val Lys Arg Cys Ser Ile Leu Ile Trp Ser Val Leu Arg Arg Lys Thr  
                   35                  40                  45  
 Met Lys Ala Glu Leu Val Cys Ala Thr Gln Ser Lys Pro Leu Leu Phe  
           50                  55                  60  
 Phe Trp Lys Asp Gly Val Met Phe Phe Lys Asp Ser Asn Lys Tyr Pro  
           65                  70                  75                  80  
 Ala Val Ile Ser

<210> 1174  
 <211> 74  
 <212> PRT  
 <213> Homo sapiens

<400> 1174  
 Met Gly Phe His His Val Ser Gln Ala Ala Leu Val Leu Leu Leu Leu  
           1                  5                  10                  15  
 Leu Leu Leu Leu Leu Leu Phe Asp Thr Glu Ser Arg Ser Ser Leu Ala  
                   20                  25                  30  
 Thr Glu Arg Asp Ser Ile Ser Lys Lys Lys Asn Lys Lys Thr Lys Lys  
           35                  40                  45  
 Lys Asn Arg Lys Glu Thr Lys Asn Val Val Leu Ile Leu Ile Asn Ser  
           50                  55                  60  
 Asn Ser Phe Met Trp Leu Ala Ala Ala Leu  
           65                  70

<210> 1175  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens



<400> 1175  
Met Val Leu Pro Phe Val Leu Leu PheArg Pro Asn Phe Ile Ser Val  
1 5 10 15  
Leu His Pro Leu Phe Tyr Ser His Cys Leu Phe Leu Tyr Leu Ile Ser  
20 25 30  
Pro Val His Ser Ser Ser Ile Ile Tyr TyrLys Pro Asp His Cys His  
35 40 45  
Tyr Thr Pro Phe Ile Pro Gly Leu Leu Gln  
50 55

<210> 1176  
<211> 27  
<212> PRT  
<213> Homo sapiens

<400> 1176  
Met Leu Thr Gln Asn Gly Leu PheVal Phe Phe Phe Phe Gly Phe  
1 5 10 15  
Gln Ser Ser Cys Lys His Ala Lys Lys Lys Lys  
20 25

<210> 1177  
<211> 82  
<212> PRT  
<213> Homo sapiens

<400> 1177  
Met Asn Arg Ser Thr Arg Ser Tyr Arg Cys Trp Ala Thr Trp Pro Arg  
1 5 10 15  
Leu Gly Trp Ala Leu Pro Cys Cys Met Asn Ser Leu Arg Lys Gly Arg  
20 25 30  
Lys Phe Ser Gln Ile Thr Thr Ser Leu Met Ala Ser Val Ser Ser Ala  
35 40 45  
Ser Met Val Ser Arg Arg Arg Arg Pro Leu Pro Lys His Pro Val Thr  
50 55 60  
Thr Thr Ser Thr Ala Thr AlaLeu Leu Gly Thr Ser Ser Thr Trp Ser  
65 70 75 80  
Lys Ser

<210> 1178  
<211> 36

<212> PRT  
<213> Homo sapiens

<400> 1178  
Met Val Phe Leu Leu Leu Leu Leu Phe Gly Phe Phe Phe Asp Gly Ser  
1 5 10 15  
Leu Arg Ser Pro Leu Leu Leu Ile Ile His Leu Gly Pro Ala Pro Thr  
20 25 30  
Phe Leu Gln Ile  
35

<210> 1179  
<211> 163  
<212> PRT  
<213> Homo sapiens

<400> 1179  
Met Gly Ser Thr Trp Gly Ser Pro Gly Trp Val Arg Leu Ala Leu Cys  
1 5 10 15  
Leu Thr Gly Leu Val Leu Ser Leu Tyr Ala Leu His Val Lys Ala Ala  
20 25 30  
Arg Ala Arg Asp Arg Asp Tyr Arg Ala Leu Cys Asp Val Gly Thr Ala  
35 40 45  
Ile Ser Cys Ser Arg Val Phe Ser Ser Arg Trp Gly Arg Gly Phe Gly  
50 55 60  
Leu Val Glu His Val Leu Gly Gln Asp Ser Ile Leu Asn Gln Ser Asn  
65 70 75 80  
Ser Ile Phe Gly Cys Ile Phe Tyr Thr Leu Gln Leu Leu Leu Gly Cys  
85 90 95  
Leu Arg Thr Arg Trp Ala Ser Val Leu Met Leu Leu Ser Ser Leu Val  
100 105 110  
Ser Leu Ala Gly Ser Val Tyr Leu Ala Trp Ile Leu Phe Phe Val Leu  
115 120 125  
Tyr Asp Phe Cys Ile Val Cys Ile Thr Thr Tyr Ala Ile Asn Val Ser  
130 135 140  
Leu Met Trp Leu Ser Phe Arg Lys Val Gln Glu Pro Gln Gly Lys Ala  
145 150 155 160  
Lys Arg His

<210> 1180

<211> 64  
 <212> PRT  
 <213> Homo sapiens

<400> 1180  
 Met Phe Met Trp Thr Ile Ser Ile Val Thr Phe Ser Ile Pro Leu Thr  
   1                  5                  10                  15  
 Leu Pro Leu Pro Leu Arg Gly Glu Asn Lys ThrLeu Asn Gly Ser Asn  
                   20                  25                  30  
 Ser Tyr Val Phe Tyr Phe Val Ser Glu Val Ser Lys Leu Leu Leu Leu  
           35                  40                  45  
 Ala Ser Phe Ser Leu Gly Gln Met Asp Val Ser Tyr Phe ProVal Ser  
       50                  55                  60

<210> 1181  
 <211> 184  
 <212> PRT  
 <213> Homo sapiens

<400> 1181  
 Met Lys Ala Leu Gly Ala Val Leu Leu Ala Leu Leu Leu Cys Gly Arg  
   1                  5                  10                  15  
 Pro Gly Arg Gly Gln Thr Gln Gln Glu Glu Glu Glu Asp Glu Asp  
                   20                  25                  30  
 His Gly Pro Asp Asp Tyr Asp Glu Glu Asp Glu Asp Glu Val Glu Glu  
           35                  40                  45  
 Glu Glu Thr Asn Arg Leu Pro Gly Gly Arg Ser Arg Val Leu Leu Arg  
       50                  55                  60  
 Cys Tyr Thr Cys Lys Ser Leu Pro Arg Asp Glu Arg Cys Asn Leu Thr  
       65                  70                  75                  80  
 Gln Asn Cys Ser His Gly Gln Thr Cys Thr Thr Leu Ile Ala His Gly  
                   85                  90                  95  
 Asn Thr Glu Ser Gly Leu Leu Thr Thr His Ser Thr Trp Cys Thr Asp  
           100                  105                  110  
 Ser Cys Gln Pro Ile Thr Lys Thr Val Glu Gly Thr Gln Val Thr Met  
       115                  120                  125  
 Thr Cys Cys Gln Ser Ser Leu Cys Asn Val Pro Pro Trp Gln Ser Ser  
       130                  135                  140  
 Arg Val Gln Asp Pro Thr Gly Lys Gly Ala Gly Gly Pro Arg Gly Ser  
       145                  150                  155                  160

Ser Glu Thr Val Gly Ala Ala Leu Leu Leu Asn Leu Leu Ala Gly Leu  
165 170 175

Gly Ala Met Gly Ala Arg Arg Pro  
180

<210> 1182  
<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 1182  
Met Phe Cys Phe Tyr Leu Asn Tyr Phe Thr Asn Leu Phe Leu Phe Leu  
1 5 10 15  
Thr Cys Ser Arg Ser Glu Ser Leu Ser Ser Pro Thr Gly Pro Tyr Ser  
20 25 30  
Gly Phe Pro Phe Leu Lys Ser Pro Pro Val Arg Asn Ser Leu Asn Lys  
35 40 45  
Gly Pro Leu Leu Val Gln Tyr Tyr Ser Phe Ser Ser His Leu Arg Val  
50 55 60  
Pro Arg Lys Lys Lys Gln Val Ile Arg Val Pro Val Arg Val Pro Pro  
65 70 75 80  
Lys Ser Pro Ala Met Ser Pro Pro Ser Ser Pro Arg Phe His Phe Phe  
85 90 95  
Thr Phe Ser Gly Pro Phe Pro Asn Ser Tyr  
100 105

<210> 1183  
<211> 390  
<212> PRT  
<213> Homo sapiens

<400> 1183  
Met Ile Ser Leu Pro Gly Pro Leu Val Thr Asn Leu Leu Arg Phe Leu  
1 5 10 15  
Phe Leu Gly Leu Ser Ala Leu Ala Pro Pro Ser Arg Ala Gln Leu Gln  
20 25 30  
Leu His Leu Pro Ala Asn Arg Leu Gln Ala Val Glu Gly Gly Glu Val  
35 40 45  
Val Leu Pro Ala Trp Tyr Thr Leu His Gly Glu Val Ser Ser Ser Gln  
50 55 60  
Pro Trp Glu Val Pro Phe Val Met Trp Phe Phe Lys Gln Lys Glu Lys

65 70 75 80

Glu Asp Gln Val Leu Ser Tyr Ile Asn Gly Val Thr Thr Ser Lys Pro  
85 90 95

Gly Val Ser Leu Val Tyr Ser Met Pro Ser Arg AsnLeu Ser Leu Arg  
100 105 110

Leu Glu Gly Leu Gln Glu Lys Asp Ser Gly Pro Tyr Ser Cys Ser Val  
115 120 125

Asn Val Gln Asp Lys Gln Gly Lys Ser Arg Gly His Ser Ile LysThr  
130 135 140

Leu Glu Leu Asn Val Leu Val Pro Pro Ala Pro Pro Ser Cys Arg Leu  
145 150 155 160

Gln Gly Val Pro His Val Gly Ala Asn Val Thr Leu Ser Cys Gln Ser  
165 170 175

Pro Arg Ser Lys Pro Ala Val Gln Tyr Gln Trp Asp Arg Gln Leu Pro  
180 185 190

Ser Phe Gln Thr Phe Phe Ala Pro Ala Leu Asp Val Ile Arg Gly Ser  
195 200 205

Leu Ser Leu Thr Asn Leu Ser Ser Ser Met Ala Gly Val Tyr Val Cys  
210 215 220

Lys Ala His Asn Glu Val Gly Thr Ala Gln Cys Asn Val Thr Leu Glu  
225 230 235 240

Val Ser Thr Gly Pro Gly Ala Ala Val Val Ala Gly Ala Val Val Gly  
245 250 255

Thr Leu Val Gly Leu Gly Leu Leu Ala Gly Leu Val Leu Leu Tyr His  
260 265 270

Arg Arg Gly Lys Ala Leu Glu Glu Pro Ala Asn Asp Ile Lys Glu Asp  
275 280 285

Ala Ile Ala Pro Arg Thr Leu Pro Trp Pro Lys Ser Ser Asp Thr Ile  
290 295 300

Ser Lys Asn Gly Thr Leu Ser Ser Val Thr Ser Ala Arg Ala Leu Arg  
305 310 315 320

Pro Pro His Gly Pro Pro Arg Pro Gly Ala Leu Thr Pro Thr Pro Ser  
325 330 335

Leu Ser Ser Gln Ala Leu Pro Ser Pro Arg Leu Pro Thr Thr Asp Gly  
340 345 350

Ala His Pro Gln Pro Ile Ser Pro Ile Pro Gly Gly Val Ser Ser Ser  
355 360 365

Gly Leu Ser Arg Met Gly Ala Val Pro Val Met Val Pro Ala Gln Ser



35                                      40                                      45  
 Met Gln Arg Met Thr Pro Pro Arg Gly Met Val Pro Leu Gly Pro Gln  
     50                                      55                                      60  
 Asn Tyr Gly Gly Ala Met Arg Pro Pro Leu Asn Ala Leu Gly Gly Pro  
     65                                      70                                      75                                      80  
 Gly Met Pro Gly Met Asn Met Gly Pro Gly Gly Gly Arg Pro Trp Pro  
                                     85                                      90                                      95  
 Asn Pro Thr Asn Ala Asn Ser Ile Pro Tyr Ser Ser Ala Ser Pro Gly  
                                     100                                      105                                      110  
 Asn Tyr Val Gly Pro Pro Gly Gly Gly Gly Pro Pro Gly Thr Pro Ile  
                                     115                                      120                                      125  
 Met Pro Ser Pro Ala Asp Ser Thr Asn Ser Gly Asp Asn Met Tyr Thr  
                                     130                                      135                                      140  
 Leu Met Asn Ala Val Pro Pro Gly Pro Asn Arg Pro Asn Phe Pro Met  
     145                                      150                                      155                                      160  
 Gly Pro Gly Ser Asp Gly Pro Met Gly Gly Leu Gly Gly Met Glu Ser  
                                     165                                      170                                      175  
 His His Met Asn Gly Ser Leu Gly Ser Gly Asp Met Asp Ser Ile Ser  
                                     180                                      185                                      190  
 Lys Asn Ser Pro Asn Asn Met Ser Leu Ser Asn Gln Pro Gly Thr Pro  
                                     195                                      200                                      205  
 Arg Asp Asp Gly Glu Met Gly Gly Asn Phe Leu Asn Pro Phe Gln Ser  
                                     210                                      215                                      220  
 Glu Ser Tyr Ser Pro Ser Met Thr Met Ser Val  
     225                                      230                                      235

<210> 1186  
 <211> 82  
 <212> PRT  
 <213> Homo sapiens

<400> 1186  
 Met Arg Thr Trp Ala Ser Leu Ala Leu Gly Leu Thr Arg Ala Leu Gly  
     1                                      5                                      10                                      15  
 Gly Met Gly Ser Phe Leu Leu Arg Ile Leu Gly Trp Ser Trp Ala Met  
                                     20                                      25                                      30  
 Gly Ser Arg Ser Arg Ala Arg Trp Pro Arg Gly Arg Leu Gly Phe Thr  
                                     35                                      40                                      45  
 Ser Met Leu Ser Cys Met Arg Gln Cys Ser Val Cys Arg Met Ile Met  
     50                                      55                                      60

Ser Leu Val Glu Val Leu Val Ala Thr Ser Gln Val Val Lys Leu Trp  
65 70 75 80

Ser Arg

<210> 1187  
<211> 49  
<212> PRT  
<213> Homo sapiens

<400> 1187  
Met Ile Asp Ile Cys His Ser Leu Arg Arg Glu His Phe Leu Leu Trp  
1 5 10 15  
Ser Phe Leu Gly Leu Phe Tyr Trp Ala Val Asn Gly Lys Ser Val Cys  
20 25 30  
Val Ser Leu Leu His Pro Lys His Leu Gly Lys Asn Glu Ser Leu Leu  
35 40 45

Ile

<210> 1188  
<211> 89  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (12)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (13)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (72)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 1188  
Met Ser Gly Gly Leu Ser Phe Leu Leu Leu Val Xaa Xaa Gly Thr Gln  
1 5 10 15  
Ser Pro Leu His Leu Ala Gly Ser Cys Pro Gly Gln Thr His Leu Ser  
20 25 30  
Phe Pro Leu Gly Gln Asp Arg Gly Gln Gln Leu Gln Gln Lys Gln Gln







Gly Ile Gln Val Ile Arg Thr Asp Thr Phe Lys His Leu Arg His Leu 95  
 85  
 Glu Ile Leu Gln Leu Ser Lys Asn Leu Val Arg Lys Ile Glu Val Gly 110  
 100 105  
 Ala Phe Asn Gly Leu Pro Ser Leu Asn Thr Leu Glu Leu Phe Asp Asn 125  
 115 120  
 Arg Leu Thr Thr Val Pro Thr Gln Ala Phe Glu Tyr Leu Ser Lys Leu 140  
 130 135  
 Arg Glu Leu Trp Leu Arg Asn Asn Pro Ile Glu Ser Ile Pro Ser Tyr 160  
 145 150 155  
 Ala Phe Asn Arg Val Pro Ser Leu Arg Arg Leu Asp Leu Gly Glu Leu 175  
 165 170  
 Lys Arg Leu Glu Tyr Ile Ser Glu Ala Ala Phe Glu Gly Leu Val Asn 190  
 180 185  
 Leu Arg Tyr Leu Asn Leu Gly Met Cys Asn Leu Lys Asp Ile Pro Asn 205  
 195 200  
 Leu Thr Ala Leu Val Arg Leu Glu Glu Leu Glu Leu Ser Gly Asn Arg 220  
 210 215  
 Leu Asp Leu Ile Arg Pro Gly Ser Phe Gln Gly Leu Thr Ser Leu Arg 240  
 225 230 235  
 Lys Leu Trp Leu Met His Ala Gln Val Ala Thr Ile Glu Arg Asn Ala 255  
 245 250  
 Phe Asp Asp Leu Lys Ser Leu Glu Glu Leu Asn Leu Ser His Asn Asn 270  
 260 265  
 Leu Met Ser Leu Pro His Asp Leu Phe Thr Pro Leu His Arg Leu Glu 285  
 275 280  
 Gly Gly Pro Gly Thr Gln Phe 295  
 290

<210> 1194

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1194  
Met Leu Pro Leu Met Thr Tyr Ile Ile Gln Tyr Ile Tyr Thr Tyr Ile  
1 5 10 15  
Xaa Xaa Val Arg Val Leu Ala Ile Leu Phe Leu Arg Arg Val Leu Ser  
20 25 30  
Gln Thr Leu Leu His Ala Val Tyr Gly Val Ser Cys Val Leu Ile Phe  
35 40 45

<210> 1195  
<211> 56  
<212> PRT  
<213> Homo sapiens

<400> 1195  
Met Cys Phe Thr Gln Phe Ser Arg Ile Phe Phe Leu Thr Ser Ser Leu  
1 5 10 15  
Thr Leu Ala Ala Cys Ala Asn His Ile Leu Ala Ala Tyr Ser Ser Ser  
20 25 30  
Leu Ala Asp Arg Cys Val Gly Glu Lys Ser Leu Ile Val Ile Val Pro  
35 40 45  
Glu Arg Ser Phe Gln Thr His Phe  
50 55

<210> 1196  
<211> 44  
<212> PRT  
<213> Homo sapiens

<400> 1196  
Met Arg Lys Thr Ala Trp Leu Cys Phe Phe Phe Gln Leu Cys Gly Leu  
1 5 10 15  
Gly Gln Val Thr Ser Leu Gln Tyr Arg Asn Cys Asn Val Glu Ile Lys  
20 25 30  
Pro Ser Leu Val Arg Gly Thr His Arg Ser Ile Pro  
35 40

<210> 1197  
<211> 108  
<212> PRT

<213> Homo sapiens

<400> 1197

Met Lys Ala Leu Cys Leu Leu LeuLeu Pro Val Leu Gly Leu Leu Val  
1 5 10 15  
Ser Ser Lys Thr Leu Cys Ser Met Glu Glu Ala Ile Asn Glu Arg Ile  
20 25 30  
Gln Glu Val Ala Gly Ser Leu Ile PheArg Ala Ile Ser Ser Ile Gly  
35 40 45  
Leu Glu Cys Gln Ser Val Thr Ser Arg Gly Asp Leu Ala Thr Cys Pro  
50 55 60  
Arg Gly Phe Ala Val Thr Gly Cys Thr Cys Gly Ser Ala CysGly Ser  
65 70 75 80  
Trp Asp Val Arg Ala Glu Thr Thr Cys His Cys Gln Cys Ala Gly Met  
85 90 95  
Asp Trp Thr Gly Ala Arg Cys Cys Arg Val Gln Pro  
100 105

<210> 1198

<211> 44

<212> PRT

<213> Homo sapiens

<400> 1198

Met Arg Leu Arg Asn Gly Thr Val Ala Thr Ala Leu Ala Phe Ile Thr  
1 5 10 15  
Ser Phe Leu Thr Leu Ser Trp Tyr Thr Thr Trp Gln Asn Gly Lys Gly  
20 25 30  
Lys Glu Asn Asp Ser Glu Asn Val His Glu Met Tyr  
35 40

<210> 1199

<211> 176

<212> PRT

<213> Homo sapiens

<400> 1199

Met Ser Arg Gly Asp Asn Cys Thr Asp Leu Leu Ala Leu Gly Ile Pro  
1 5 10 15  
Ser Ile Thr Gln Ala Trp Gly Leu Trp Val Leu Leu Gly Ala Val Thr  
20 25 30  
Leu Leu Phe Leu Ile Ser Leu Ala Ala His Leu Ser Gln Trp Thr Arg  
35 40 45

Gly Arg Ser Arg Ser His Pro Gly Gln Gly Arg Ser Gly Glu Ser Val  
 50 55 60  
 Glu Glu Val Pro Leu Tyr Gly Asn Leu His Tyr Leu Gln Thr Gly Arg  
 65 70 75 80  
 Leu Ser Gln Asp Pro Glu Pro Asp Gln Gln Asp Pro Thr Leu Gly Gly  
 85 90 95  
 Pro Ala Arg Ala Ala Glu Glu Val Met Cys Tyr Thr Ser Leu Gln Leu  
 100 105 110  
 Arg Pro Pro Gln Gly Arg Ile Pro Gly Pro Gly Thr Pro Val Lys Tyr  
 115 120 125  
 Ser Glu Val Val Leu Asp Ser Glu Pro Lys Ser Gln Ala Ser Gly Pro  
 130 135 140  
 Glu Pro Glu Leu Tyr Ala Ser Val Cys Ala Gln Thr Arg Arg Ala Arg  
 145 150 155 160  
 Ala Ser Phe Pro Asp Gln Ala Tyr Ala Asn Ser Gln Pro Ala Ala Ser  
 165 170 175

<210> 1200  
 <211> 327  
 <212> PRT  
 <213> Homo sapiens

<400> 1200  
 Met Ala Cys Arg Lys Leu Ala Val Ala His Pro Leu Leu Leu Leu Arg  
 1 5 10 15  
 His Leu Pro Met Ile Ala Ala Leu Leu His Gly Arg Thr His Leu Asn  
 20 25 30  
 Phe Gln Glu Phe Arg Gln Gln Asn His Leu Ser Cys Phe Leu His Val  
 35 40 45  
 Leu Gly Leu Leu Glu Leu Leu Gln Pro His Val Phe Arg Ser Glu His  
 50 55 60  
 Gln Gly Ala Leu Trp Asp Cys Leu Leu Ser Phe Ile Arg Leu Leu Leu  
 65 70 75 80  
 Asn Tyr Arg Lys Ser Ser Arg His Leu Ala Ala Phe Ile Asn Lys Phe  
 85 90 95  
 Val Gln Phe Ile His Lys Tyr Ile Thr Tyr Asn Ala Pro Ala Ala Ile  
 100 105 110

Ser Phe Leu Gln Lys His Ala Asp Pro Leu His Asp Leu Ser Phe Asp  
 115 120 125  
 Asn Ser Asp Leu Val Met Leu Lys Ser Leu Leu Ala Gly Leu Ser Leu  
 130 135 140  
 Pro Ser Arg Asp Asp Arg Thr Asp Arg Gly Leu Asp Glu Glu Gly Glu  
 145 150 155 160  
 Glu Glu Ser Ser Ala Gly Ser Leu Pro Leu Val Ser Val Ser Leu Phe  
 165 170 175  
 Thr Pro Leu Thr Ala Ala Glu Met Ala Pro Tyr Met Lys Arg Leu Ser  
 180 185 190  
 Arg Gly Gln Thr Val Glu Asp Leu Leu Glu Val Leu Ser Asp Ile Asp  
 195 200 205  
 Glu Met Ser Arg Arg Arg Pro Glu Ile Leu Ser Phe Phe Ser Thr Asn  
 210 215 220  
 Leu Gln Arg Leu Met Ser Ser Ala Glu Glu Cys Cys Arg Asn Leu Ala  
 225 230 235 240  
 Phe Ser Leu Ala Leu Arg Ser Met Gln Asn Ser Pro Ser Ile Ala Ala  
 245 250 255  
 Ala Phe Leu Pro Thr Phe Met Tyr Cys Leu Gly Ser Gln Asp Phe Glu  
 260 265 270  
 Val Val Gln Thr Ala Leu Arg Asn Leu Pro Glu Tyr Ala Leu Leu Cys  
 275 280 285  
 Gln Glu His Ala Ala Val Leu Leu His Arg Ala Phe Leu Val Gly Met  
 290 295 300  
 Tyr Gly Gln Met Asp Pro Ser Ala Gln Ile Ser Glu Ala Leu Arg Ile  
 305 310 315 320  
 Leu His Met Glu Ala Val Met  
 325

<210> 1201

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1201

Met Asn Val Thr Ser Val Ile Leu Val Leu Ile Leu Trp Asn Val Ile  
 1 5 10 15

Gly	Val	Ala	Thr	Trp	Val	His	Gln	Asn	Thr	Phe	Leu	Tyr	Lys	Arg	Gln
			20					25					30		
Met	Xaa	Glu	Leu	Lys	Arg	Leu	Lys	Asp	Arg	Val	Phe	Cys	Phe	Phe	Val
		35					40					45			
Leu	Ile	Trp	Leu	Leu	Gly	Ile	Lys	Ile	Arg	Pro	Arg	Ser	Leu	Lys	Ile
	50					55				60					
Ser	Asn	Arg	Gly	Arg	Pro	Leu	Ile	Asp	Leu	Lys	Ser	Val	Asn	Ser	Leu
65					70					75					80

<210> 1202

<211> 112

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1202

Met	Ala	Ala	Leu	Leu	Leu	Leu	Pro	Trp	Leu	Met	Leu	Leu	Thr	Gly	Arg
1				5					10					15	
Val	Ser	Leu	Ala	Gln	Phe	Ala	Leu	Ala	Phe	Val	Thr	Asp	Thr	Cys	Val
			20					25					30		
Ala	Gly	Ala	Leu	Leu	Cys	Gly	Ala	Xaa	Leu	Leu	Phe	His	Gly	Met	Leu
		35					40					45			
Leu	Leu	Arg	Gly	Gln	Thr	Thr	Trp	Glu	Trp	Ala	Arg	Gly	Gln	His	Ser
		50				55				60					
Tyr	Asp	Leu	Gly	Pro	Cys	His	Asn	Leu	Gln	Ala	Ala	Leu	Gly	Pro	Arg
65					70				75					80	
Trp	Ala	Leu	Val	Trp	Leu	Trp	Pro	Phe	Leu	Ala	Ser	Pro	Leu	Pro	Gly
			85					90						95	
Asp	Gly	Ile	Thr	Phe	Gln	Thr	Thr	Ala	Asp	Val	Gly	Xaa	Thr	Ala	Ser
			100					105					110		



<210> 1203  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 1203  
 Met Phe Leu Val Phe Trp Leu Leu Gly Ile Tyr Phe Cys His Leu Leu  
 1 5 10 15  
 Val Ile Thr Val Leu Thr Lys Trp Ile Leu Ala Pro Pro Tyr Leu Met  
 20 25 30  
 Ala Gln Thr Thr Thr Pro Gln Ser Leu Tyr  
 35 40

<210> 1204  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 1204  
 Met Gly Ser Trp Phe Tyr Leu Phe Leu Ala Pro Leu Phe Lys Gly Leu  
 1 5 10 15  
 Ala Gly Ser Leu Pro Phe Gly Cys Leu Ser Leu Leu Gln Pro Thr Glu  
 20 25 30  
 Lys Thr Ala Leu Gln Ser Gly Gly Ser Ser  
 35 40

<210> 1205  
 <211> 91  
 <212> PRT  
 <213> Homo sapiens

<400> 1205  
 Met Gly Asp Lys Leu Gly Met Ala Arg Ala Pro Ser Val Ala Leu Ala  
 1 5 10 15  
 Gln Leu Trp Leu Ile Cys Leu Cys Pro Glu Ser Leu Ala Ser Phe Val  
 20 25 30  
 Gln Ala Val Pro Trp Lys Val Leu Gln Pro Ser Ser Asn Arg Ser Thr  
 35 40 45  
 Asp Cys Ser Pro His Met Arg Pro Thr Cys Glu Thr Leu Gly Ser Arg  
 50 55 60  
 Lys Ala Gln Asp Leu Val Leu Asp Thr Met Cys Leu Ser Thr Asp Asp  
 65 70 75 80

Cys Gln Gly Leu Ile Cys Arg Gly His Arg Ser  
85 90

<210> 1206  
<211> 223  
<212> PRT  
<213> Homo sapiens

<400> 1206  
Ala Trp Tyr Leu Leu Arg Val Gln Val Leu Gln Leu Val Ala Ala Tyr  
1 5 10 15  
Leu Ser Leu Pro Ser Asn Asn Leu Ser His Ser Leu Trp Glu Gln Leu  
20 25 30  
Cys Ala Gln Gly Trp Gln Thr Pro Glu Ile Ala Leu Ile Asp Ser His  
35 40 45  
Lys Leu Leu Arg Ser Ile Ile Leu Leu Leu Met Gly Ser Asp Ile Leu  
50 55 60  
Ser Thr Gln Lys Ala Ala Val Glu Thr Ser Phe Leu Asp Tyr Gly Glu  
65 70 75 80  
Asn Leu Val Gln Lys Trp Gln Val Leu Ser Glu Val Leu Ser Cys Ser  
85 90 95  
Glu Lys Leu Val Cys His Leu Gly Arg Leu Gly Ser Val Ser Glu Ala  
100 105 110  
Lys Ala Phe Cys Leu Glu Ala Leu Lys Leu Thr Thr Lys Leu Gln Ile  
115 120 125  
Pro Arg Gln Cys Ala Leu Phe Leu Val Leu Lys Gly Glu Leu Glu Leu  
130 135 140  
Ala Arg Asn Asp Ile Asp Leu Cys Gln Ser Asp Leu Gln Gln Val Leu  
145 150 155 160  
Phe Leu Leu Glu Ser Cys Thr Glu Phe Gly Gly Val Thr Gln His Leu  
165 170 175  
Asp Ser Val Lys Lys Val His Leu Gln Lys Gly Lys Gln Gln Ala Gln  
180 185 190  
Val Pro Cys Pro Pro Gln Leu Pro Glu Glu Glu Leu Phe Leu Arg Gly  
195 200 205  
Pro Ala Leu Glu Leu Val Pro Leu Trp Pro Arg Ser Leu Ala Pro  
210 215 220

<210> 1207

<211> 136  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (84)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1207  
 Met Leu Phe Ser Leu Arg Glu Leu Val Gln Trp Leu Gly Phe Ala Thr  
   1                  5                  10                  15  
 Phe Glu Ile Phe Val His Leu Leu Ala Leu Leu Val Phe Ser Val Leu  
                   20                  25                  30  
 Leu Ala Leu Arg Val Asp Gly Leu Val Pro Gly Leu Ser Trp Trp Asn  
                   35                  40                  45  
 Val Phe Val Pro Phe Phe Ala Ala Asp Gly Leu Ser Thr Tyr Phe Thr  
                   50                  55                  60  
 Thr Ile Val Ser Val Arg Leu Phe Gln Asp Gly Glu Lys Arg Leu Ala  
   65                  70                  75                  80  
 Val Leu Arg Xaa Phe Trp Val Leu Thr Val Leu Ser Leu Lys Phe Val  
                   85                  90                  95  
 Phe Glu Met Leu Leu Cys Gln Lys Leu Ala Glu Gln Thr Arg Glu Leu  
                   100                  105                  110  
 Trp Phe Gly Leu Ile Thr Ser Pro Leu Phe Ile Leu Leu Gln Leu Leu  
                   115                  120                  125  
 Met Ile Arg Ala Cys Arg Val Asn  
   130                  135

<210> 1208  
 <211> 293  
 <212> PRT  
 <213> Homo sapiens

<400> 1208  
 Met Ala Thr Ala Arg Pro Pro Trp Met Trp Val Leu Cys Ala Leu Ile  
   1                  5                  10                  15  
 Thr Ala Leu Leu Leu Gly Val Thr Glu His Val Leu Ala Asn Asn Asp  
                   20                  25                  30  
 Val Ser Cys Asp His Pro Ser Asn Thr Val Pro Ser Gly Ser Asn Gln  
                   35                  40                  45  
 Asp Leu Gly Ala Gly Ala Gly Glu Asp Ala Ag Ser Asp Asp Ser Ser  
   50                  55                  60

Ser Arg Ile Ile Asn Gly Ser Asp Cys Asp Met His Thr Gln Pro Trp  
 65 70 75 80  
 Gln Ala Ala Leu Leu Leu Arg Pro Asn Gln Leu Tyr Cys Gly Ala Val  
 85 90 95  
 Leu Val His Pro Gln Trp Leu Leu Thr Ala Ala His Cys Arg Lys Lys  
 100 105 110  
 Val Phe Arg Val Arg Leu Gly His Tyr Ser Leu Ser Pro Val Tyr Glu  
 115 120 125  
 Ser Gly Gln Gln Met Phe Gln Gly Val Lys Ser Ile Pro His Pro Gly  
 130 135 140  
 Tyr Ser His Pro Gly His Ser Asn Asp Leu Met Leu Ile Lys Leu Asn  
 145 150 155 160  
 Arg Arg Ile Arg Pro Thr Lys Asp Val Arg Pro Ile Asn Val Ser Ser  
 165 170 175  
 His Cys Pro Ser Ala Gly Thr Lys Cys Leu Val Ser Gly Trp Gly Thr  
 180 185 190  
 Thr Lys Ser Pro Gln Val His Phe Pro Lys Val Leu Gln Cys Leu Asn  
 195 200 205  
 Ile Ser Val Leu Ser Gln Lys Arg Cys Glu Asp Ala Tyr Pro Arg Gln  
 210 215 220  
 Ile Asp Asp Thr Met Phe Cys Ala Gly Asp Lys Ala Gly Arg Asp Ser  
 225 230 235 240  
 Cys Gln Gly Asp Ser Gly Gly Pro Val Val Cys Asn Gly Ser Leu Gln  
 245 250 255  
 Gly Leu Val Ser Trp Gly Asp Tyr Pro Cys Ala Arg Pro Asn Arg Pro  
 260 265 270  
 Gly Val Tyr Thr Asn Leu Cys Lys Phe Thr Lys Trp Ile Gln Glu Thr  
 275 280 285  
 Ile Gln Ala Asn Ser  
 290

<210> 1209

<211> 196

<212> PRT

<213> Homo sapiens

<400> 1209

Met Lys Tyr Leu Arg His Arg Arg Pro Asn Ala Thr Leu Ile Leu Ala  
 1 5 10 15

Ile Gly Ala Phe Thr Leu Leu Leu Phe Ser Leu Leu Val Ser Pro Pro



<213> Homo sapiens

<400> 1211

```
Met Gly Thr Leu Pro Trp Leu Leu Ala Phe Phe Ile Leu Gly Leu Gln
 1          5          10          15

Ala Trp Asp Thr Pro Thr Ile Val Ser Arg Lys Glu Trp Gly Ala Arg
      20          25          30

Pro Leu Ala Cys Arg Ala Leu Leu Thr Leu Pro Val Ala Tyr Ile Ile
      35          40          45

Thr Asp Gln Leu Pro Gly Met Gln Cys Gln Gln Gln Ser Val Cys Ser
      50          55          60

Gln Met Leu Arg Gly Leu Gln Ser His Ser Val Tyr Thr Ile Gly Trp
      65          70          75          80

Cys Asp Val Ala Tyr Asn Phe Leu Val Gly Asp Asp Gly Arg Val Tyr
      85          90          95

Glu Gly Val Gly Trp Asn Ile Gln Gly Leu His Thr Gln Gly Tyr Asn
      100          105          110

Asn Ile Ser Leu Gly Ile Ala Phe Phe Gly Asn Lys Ile Ser Ser Ser
      115          120          125

Pro Ser Pro Ala Ala Leu Ser Ala Ala Glu Gly Leu Ile Ser Tyr Ala
      130          135          140

Ile Gln Lys Gly His Leu Ser Pro Arg Tyr Ile Gln Pro Leu Leu Leu
      145          150          155          160

Lys Glu Glu Thr Cys Leu Asp Pro Gln His Pro Val Met Pro Arg Lys
      165          170          175

Val Cys Pro Asn Ile Ile Lys Arg Ser Ala Trp Glu Ala Arg Glu Thr
      180          185          190

His Cys Pro Lys Met Asn Leu Pro Ala Lys Tyr Val Ile Ile Ile His
      195          200          205

Thr Ala Gly Thr Ser Cys Thr Val Ser Thr Asp Cys Gln Thr Val Val
      210          215          220

Arg Asn Ile Gln Ser Phe His Met Asp Thr Arg Asn Phe Cys Asp Ile
      225          230          235          240

Gly Tyr Gln
```

<210> 1212

<211> 80

<212> PRT

<213> Homo sapiens

<400> 1212

Met Lys Leu Ser Gly Met Phe Leu Leu Leu Ser Leu Ala Leu Phe Cys  
1 5 10 15  
Phe Leu Thr Gly Val Phe Ser Gln Gly Gly Gln Val Asp Cys Gly Glu  
20 25 30  
Phe Gln Asp Thr Lys Val Tyr Cys Thr Arg Glu Ser Asn Pro His Cys  
35 40 45  
Gly Ser Asp Gly Gln Thr Tyr Gly Asn Lys Cys Ala Phe Cys Lys Ala  
50 55 60  
Ile Val Lys Ser Gly Gly Lys Ile Ser Leu Lys His Pro Gly Lys Cys  
65 70 75 80

<210> 1213

<211> 301

<212> PRT

<213> Homo sapiens

<400> 1213

Met Ala Arg His Gly Leu Pro Leu Leu Pro Leu Leu Ser Leu Leu Val  
1 5 10 15  
Gly Ala Trp Leu Lys Leu Gly Asn Gly Gln Ala Thr Ser Met Val Gln  
20 25 30  
Leu Gln Gly Gly Arg Phe Leu Met Gly Thr Asn Ser Pro Asp Ser Arg  
35 40 45  
Asp Gly Glu Gly Pro Val Arg Glu Ala Thr Val Lys Pro Phe Ala Ile  
50 55 60  
Asp Ile Phe Pro Val Thr Asn Lys Asp Phe Arg Asp Phe Val Arg Glu  
65 70 75 80  
Lys Lys Tyr Arg Thr Glu Ala Glu Met Phe Gly Trp Ser Phe Val Phe  
85 90 95  
Glu Asp Phe Val Ser Asp Glu Leu Arg Asn Lys Ala Thr Gln Pro Met  
100 105 110  
Lys Ser Val Leu Trp Trp Leu Pro Val Glu Lys Ala Phe Trp Arg Gln  
115 120 125  
Pro Ala Gly Pro Gly Ser Gly Ile Arg Glu Arg Leu Glu His Pro Val  
130 135 140  
Leu His Val Ser Trp Asn Asp Ala Arg Ala Tyr Cys Ala Trp Arg Gly  
145 150 155 160

Lys Arg Leu Pro Thr Glu Glu Glu Trp Glu Phe Ala Ala Arg Gly Gly  
                     165                    170                    175  
 Leu Lys Gly Gln Val Tyr Pro Trp Gly Asn Trp Phe Gln Pro Asn Arg  
                     180                    185                    190  
 Thr Asn Leu Trp Gln Gly Lys Phe Pro Lys Gly Asp Lys Ala Glu Asp  
                     195                    200                    205  
 Gly Phe His Gly Val Ser Pro Val Asn Ala Phe Pro Ala Gln Asn Asn  
                     210                    215                    220  
 Tyr Gly Leu Tyr Asp Leu Leu Gly Asn Val Trp Glu Trp Thr Ala Ser  
                     225                    230                    235                    240  
 Pro Tyr Gln Ala Ala Glu Gln Asp Met Arg Val Leu Arg Gly Ala Ser  
                     245                    250                    255  
 Trp Ile Asp Thr Ala Asp Gly Ser Ala Asn His Arg Ala Arg Val Thr  
                     260                    265                    270  
 Thr Arg Met Gly Asn Thr Pro Asp Ser Ala Ser Asp Asn Leu Gly Phe  
                     275                    280                    285  
 Arg Cys Ala Ala Asp Ala Gly Arg Pro Pro Gly Glu Leu  
                     290                    295                    300

<210> 1214  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 1214  
 Met Ala Ser Gly Ser Trp Thr Ser Ala Pro Gly Ile Gly Val Ile Leu  
           1                    5                    10                    15  
 Val Met Thr Val Cys Leu Ser His Cys Tyr Thr His Glu Trp Gly Leu  
                     20                    25                    30  
 Trp Gly Gly Gly Gly Thr Gln Gly Leu Thr Asp Ser  
                     35                    40

<210> 1215  
 <211> 692  
 <212> PRT  
 <213> Homo sapiens

<400> 1215  
 Met Gly Thr Val Ser Ser Arg Arg Ser Trp Trp ProLeu Pro Leu Leu  
           1                    5                    10                    15  
 Leu Leu Leu Leu Leu Leu Gly Pro Ala Gly Ala Arg Ala Gln Glu



20					25					30					
Asp	Glu	Asp	Gly	Asp	Tyr	Glu	Glu	Leu	Val	Leu	Ala	Leu	Arg	Ser	Glu
		35					40					45			
Glu	Asp	Gly	Leu	Ala	Glu	Ala	Pro	Glu	His	Gly	Thr	Thr	Ala	Thr	Phe
	50					55					60				
His	Arg	Cys	Ala	Lys	Asp	Pro	Trp	Arg	Leu	Pro	Gly	Thr	Tyr	Val	Val
	65					70					75				80
Val	Leu	Lys	Glu	Glu	Thr	His	Leu	Ser	Gln	Ser	Glu	Arg	Thr	Ala	Arg
				85					90					95	
Arg	Leu	Gln	Ala	Gln	Ala	Ala	Arg	Arg	Gly	Tyr	Leu	Thr	Lys	Ile	Leu
			100					105					110		
His	Val	Phe	His	Gly	Leu	Leu	Pro	Gly	Phe	Leu	Val	Lys	Met	Ser	Gly
		115					120					125			
Asp	Leu	Leu	Glu	Leu	Ala	Leu	Lys	Leu	Pro	His	Val	Asp	Tyr	Ile	Glu
	130					135					140				
Glu	Asp	Ser	Ser	Val	Phe	Ala	Gln	Ser	Ile	Pro	Trp	Asn	Leu	Glu	Arg
	145					150					155				160
Ile	Thr	Pro	Pro	Arg	Tyr	Arg	Ala	Asp	Glu	Tyr	Gln	Pro	Pro	Asp	Gly
				165					170					175	
Gly	Ser	Leu	Val	Glu	Val	Tyr	Leu	Leu	Asp	Thr	Ser	Ile	Gln	Ser	Asp
			180					185					190		
His	Arg	Glu	Ile	Glu	Gly	Arg	Val	Met	Val	Thr	Asp	Phe	Glu	Asn	Val
		195					200					205			
Pro	Glu	Glu	Asp	Gly	Thr	Arg	Phe	His	Arg	Gln	Ala	Ser	Lys	Cys	Asp
	210					215					220				
Ser	His	Gly	Thr	His	Leu	Ala	Gly	Val	Val	Ser	Gly	Arg	Asp	Ala	Gly
	225					230					235				240
Val	Ala	Lys	Gly	Ala	Ser	Met	Arg	Ser	Leu	Arg	Val	Leu	Asn	Cys	Gln
				245					250					255	
Gly	Lys	Gly	Thr	Val	Ser	Gly	Thr	Leu	Ile	Gly	Leu	Glu	Phe	Ile	Arg
			260					265					270		
Lys	Ser	Gln	Leu	Val	Gln	Pro	Val	Gly	Pro	Leu	Val	Val	Leu	Leu	Pro
		275					280					285			
Leu	Ala	Gly	Gly	Tyr	Ser	Arg	Val	Leu	Asn	Ala	Ala	Cys	Gln	Arg	Leu
	290					295					300				
Ala	Arg	Ala	Gly	Val	Val	Leu	Val	Thr	Ala	Ala	Gly	Asn	Phe	Arg	Asp
	305					310					315				320
Asp	Ala	Cys	Leu	Tyr	Ser	Pro	Ala	Ser	Ala	Pro	Glu	Val	Ile	Thr	Val

325                      330                      335

Gly Ala Thr Asn Ala Gln Asp Gln Pro Val Thr Leu Gly Thr Leu Gly  
340                      345                      350

Thr Asn Phe Gly Arg Cys Val Asp Leu Phe Ala Pro Gly Glu Asp Ile  
355                      360                      365

Ile Gly Ala Ser Ser Asp Cys Ser Thr Cys Phe Val Ser Gln Ser Gly  
370                      375                      380

Thr Ser Gln Ala Ala Ala His Val Ala Gly Ile Ala Ala Met Met Leu  
385                      390                      395                      400

Ser Ala Glu Pro Glu Leu Thr Leu Ala Glu Leu Arg Gln Arg Leu Ile  
405                      410                      415

His Phe Ser Ala Lys Asp Val Ile Asn Glu Ala Trp Phe Pro Glu Asp  
420                      425                      430

Gln Arg Val Leu Thr Pro Asn Leu Val Ala Ala Leu Pro Pro Ser Thr  
435                      440                      445

His Gly Ala Gly Trp Gln Leu Phe Cys Arg Thr Val Trp Ser Ala His  
450                      455                      460

Ser Gly Pro Thr Arg Met Ala Thr Ala Ile Ala Arg Cys Ala Pro Asp  
465                      470                      475                      480

Glu Glu Leu Leu Ser Cys Ser Ser Phe Ser Arg Ser Gly Lys Arg Arg  
485                      490                      495

Gly Glu Arg Met Glu Ala Gln Gly Gly Lys Leu Val Cys Arg Ala His  
500                      505                      510

Asn Ala Phe Gly Gly Glu Gly Val Tyr Ala Ile Ala Arg Cys Cys Leu  
515                      520                      525

Leu Pro Gln Ala Asn Cys Ser Val His Thr Ala Pro Pro Ala Glu Ala  
530                      535                      540

Ser Met Gly Thr Arg Val His Cys His Gln Gln Gly His Val Leu Thr  
545                      550                      555                      560

Gly Cys Ser Ser His Trp Glu Val Glu Asp Leu Gly Thr His Lys Pro  
565                      570                      575

Pro Val Leu Arg Pro Arg Gly Gln Pro Asn Gln Cys Val Gly His Arg  
580                      585                      590

Glu Ala Ser Ile His Ala Ser Cys Cys His Ala Pro Gly Leu Glu Cys  
595                      600                      605

Lys Val Lys Glu His Gly Ile Pro Ala Pro Gln Glu Gln Val Thr Val  
610                      615                      620

Ala Cys Glu Glu Gly Trp Thr Leu Thr Gly Cys Ser Ala Leu Pro Gly



Trp Val Ile Leu Gln His Leu Val His Tyr Thr Gln Pro Glu Leu Gln  
 65 70 75 80  
 Lys Pro Ile Ile Arg Ile Leu Trp Met Val Pro Ile Tyr Ser Leu Asp  
 85 90 95  
 Ser Trp Ile Ala Leu Lys Tyr Pro Gly Ile Ala Ile Tyr Val Asp Thr  
 100 105 110  
 Cys Arg Glu Cys Tyr Glu Ala Tyr Val Ile Tyr Asn Phe Met Gly Phe  
 115 120 125  
 Leu Thr Asn Tyr Leu Thr Asn Arg Tyr Pro Asn Leu Val Leu Ile Leu  
 130 135 140  
 Glu Ala Lys Asp Gln Gln Lys His Phe Pro Pro Leu Cys Cys Cys Pro  
 145 150 155 160  
 Pro Trp Ala Met Gly Glu Val Leu Leu Phe Arg Cys Lys Leu Gly Val  
 165 170 175  
 Leu Gln Tyr Thr Val Val Arg Pro Phe Thr Thr Ile Val Ala Leu Ile  
 180 185 190  
 Cys Glu Leu Leu Gly Ile Tyr Asp Glu Gly Asn Phe Ser Phe Ser Asn  
 195 200 205  
 Ala Trp Thr Tyr Leu Val Ile Ile Asn Asn Met Ser Gln Leu Phe Ala  
 210 215 220  
 Met Tyr Cys Leu Leu Leu Phe Tyr Lys Val Leu Lys Glu Glu Leu Ser  
 225 230 235 240  
 Pro Ile Gln Pro Val Gly Lys Phe Leu Cys Val Lys Leu Val Val Phe  
 245 250 255  
 Val Ser Phe Trp Gln Ala Val Val Ile Ala Leu Leu Val Lys Val Gly  
 260 265 270  
 Val Ile Ser Glu Lys His Thr Trp Glu Trp Gln Thr Val Glu Ala Val  
 275 280 285  
 Ala Thr Gly Leu Gln Asp Phe Ile Ile Cys Ile Glu Met Phe Leu Ala  
 290 295 300  
 Ala Ile Ala His His Tyr Thr Phe Ser Tyr Lys Pro Tyr Val Gln Glu  
 305 310 315 320  
 Ala Glu Glu Gly Ser Cys Phe Asp Ser Phe Leu Ala Met Trp Asp Val  
 325 330 335  
 Ser Asp Ile Arg Asp Asp Ile Ser Glu Gln Val Arg His Val Gly Arg  
 340 345 350  
 Thr Val Arg Gly His Pro Arg Lys Lys Leu Phe Pro Glu Asp Gln Asp  
 355 360 365

Gln Asn Glu His Thr Ser Leu Leu Ser Ser Ser Ser Gln AspAla Ile  
 370 375 380  
 Ser Ile Ala Ser Ser Met Pro Pro Ser Pro Met Gly His Tyr Gln Gly  
 385 390 395 400  
 Phe Gly His Thr Val Thr Pro Gln Thr Thr Pro Thr Thr Ala Lys Ile  
 405 410 415  
 Ser Asp Glu Ile Leu Ser Asp Thr Ile Gly Glu Lys Lys Glu Pro Ser  
 420 425 430  
 Asp Lys Ser Val Asp Ser  
 435

<210> 1218  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 1218  
 Met Leu Thr Cys Ile Asp Met Asp Trp Lys Val Leu Thr Trp Leu Arg  
 1 5 10 15  
 Tyr Thr Leu Trp Ile Pro Leu Tyr Pro Leu Gly Met Phe Gly Gly Ser  
 20 25 30  
 Cys Leu Ser Asp Ser Val His Ser Asn Ile Gln  
 35 40

<210> 1219  
 <211> 107  
 <212> PRT  
 <213> Homo sapiens

<400> 1219  
 Met Val Arg Tyr Thr Tyr Ser Met Leu Ser Val Ile Gly Ile Ser Ty  
 1 5 10 15  
 Ala Val Leu Thr Trp Leu Ser Gln Thr Leu Trp Met Pro Ile Tyr Pro  
 20 25 30  
 Leu Cys Val Leu Ala Glu Ala Phe Ala Ile Tyr Gln Ser Leu Pro Tyr  
 35 40 45  
 Phe Glu Ser Phe Gly Thr Tyr Ser Thr Lys Leu Pro Phe Asp Leu Ser  
 50 55 60  
 Ile Tyr Phe Pro Tyr Val Leu Lys Ile Tyr Leu Met Met Leu Phe Ile  
 65 70 75 80  
 Gly Met Tyr Phe Thr Tyr Ser His Leu Tyr Ser Glu Arg Arg Asp Ile  
 85 90 95

Leu Gly Ile Phe Pro Ile Lys Lys Lys Lys Met  
 100 105

<210> 1220  
 <211> 222  
 <212> PRT  
 <213> Homo sapiens

<400> 1220  
 Met Leu Trp Leu Leu Phe Phe Leu Val Thr Ala Ile His Ala Glu Leu  
 1 5 10 15  
 Cys Gln Pro Gly Ala Glu Asn Ala Phe Lys Val Arg Leu Ser Ile Arg  
 20 25 30  
 Thr Ala Leu Gly Asp Lys Ala Tyr Ala Trp Asp Thr Asn Glu Glu Tyr  
 35 40 45  
 Leu Phe Lys Ala Met Val Ala Phe Ser Met Arg Lys Val Pro Asn Arg  
 50 55 60  
 Glu Ala Thr Glu Ile Ser His Val Leu Leu Cys Asn Val Thr Gln Arg  
 65 70 75 80  
 Val Ser Phe Trp Phe Val Val Thr Asp Pro Ser Lys Asn His Thr Leu  
 85 90 95  
 Pro Ala Val Glu Val Gln Ser Ala Ile Arg Met Asn Lys Asn Arg Ile  
 100 105 110  
 Asn Asn Ala Phe Phe Leu Asn Asp Gln Thr Leu Glu Phe Leu Lys Ile  
 115 120 125  
 Pro Ser Thr Leu Ala Pro Pro Met Asp Pro Ser Val Pro Ile Trp Ile  
 130 135 140  
 Ile Ile Phe Gly Val Ile Phe Cys Ile Ile Ile Val Ala Ile Ala Leu  
 145 150 155 160  
 Leu Ile Leu Ser Gly Ile Trp Gln Arg Arg Arg Lys Asn Lys Glu Pro  
 165 170 175  
 Ser Glu Val Asp Asp Ala Glu Asp Lys Cys Glu Asn Met Ile Thr Ile  
 180 185 190  
 Glu Asn Gly Ile Pro Ser Asp Pro Leu Asp Met Lys Gly Gly His Ile  
 195 200 205  
 Asn Asp Ala Phe Met Thr Glu Asp Glu Arg Leu Thr Pro Leu  
 210 215 220

<210> 1221

<211> 99  
 <212> PRT  
 <213> Homo sapiens

<400> 1221  
 Met Leu Ser Pro Gln Leu His Pro Leu Gln Val Pro Leu Pro Cys Leu  
   1                  5                  10                  15  
 Leu Leu Leu Phe Thr Leu Trp Leu Val Val Pro Gly Ser Ser Thr Asp  
                   20                  25                  30  
 Ile Ser Glu Asp Trp Glu Lys Asp Phe Asp Leu Asp Met Thr Glu Glu  
                   35                  40                  45  
 Glu Val Gln Met Ala Leu Ser Lys Val Asp Ala Ser Gly Glu Val Ser  
   50                  55                  60  
 Gly Pro Gly Gly Ser Glu Gly Ser Glu Pro Asn Gly Pro Gly Cys Glu  
   65                  70                  75                  80  
 Ser Ser Pro Gln Pro Ala Gln Leu Ser Pro Gln Glu Gly Pro Cys Ser  
                   85                  90                  95  
 Cys Leu Arg

<210> 1222  
 <211> 93  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (59)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (61)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (84)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1222  
 Met Gly His Leu Pro His Ile Leu Ser Leu Gly Leu Phe Leu Thr Leu  
   1                  5                  10                  15  
 Leu Met Phe Cys Ile Thr Lys Ser Asp Gly Gln Asn Lys Ile Tyr Arg  
                   20                  25                  30  
 Cys Phe Lys Lys Ala Ser Pro Gln Val Ile Val Thr His Thr Lys Met  
   35                  40                  45

Arg Ile Ala Ala Ile Ile Cys Ser Tyr Trp Xaa Gly Xaa Ala Asn Leu  
50 55 60  
Gly Thr Arg Ile Lys Leu Gln Leu Asn Ser Ala Val Tyr Lys Ile Phe  
65 70 75 80  
Val Ser Leu Xaa Arg Lys Arg Lys Arg Thr Leu Ser Trp  
85 90

<210> 1223  
<211> 95  
<212> PRT  
<213> Homo sapiens

<400> 1223  
Met His Leu Cys Ile Cys Ala Val Trp Val Leu Val Ala Leu LeuArg  
1 5 10 15  
Met His Gly Ala Ser Pro Ala Gln Thr Ser Gly Thr Arg Ser Gly Asn  
20 25 30  
Gly Gly Cys Arg Arg His Gly Ala Gly Gln Gly Arg Gly Ala Ala Thr  
35 40 45  
Gln Pro Leu Arg Pro Pro Arg Gly Thr Ala Ser Gly Gln Leu Met Ala  
50 55 60  
Leu Leu Ser Ala Leu Leu Pro Arg Leu Ser Gly Ser Ser Thr Pro Met  
65 70 75 80  
Met Ala His Gly Arg Pro Ala Pro Pro Gln Trp Ser Arg Val Ser  
85 90 95

<210> 1224  
<211> 69  
<212> PRT  
<213> Homo sapiens

<400> 1224  
Met Leu Leu Ser Lys Glu His Thr Ser Leu Gly Trp Leu Val Ile Phe  
1 5 10 15  
Leu Thr Leu Ala Ser Gln Leu Ile Ser Tyr Gly Ser Arg Thr Gly Asn  
20 25 30  
Ser Arg Cys Pro Pro Cys Leu Tyr Arg Thr Leu His Thr Val Ser Thr  
35 40 45  
Ser His Val Leu Ser Ser Leu Phe Val Ser Thr Phe Ser Gly Asp Glu  
50 55 60  
Leu Val Trp Thr Thr



65

<210> 1225  
<211> 130  
<212> PRT  
<213> Homo sapiens

<400> 1225  
Met Glu Thr Leu Gly Ala Leu Leu Val Leu Glu Phe Leu Leu Leu Ser  
1 5 10 15  
Pro Val Glu Ala Gln Gln Ala Thr Glu His Arg Leu Lys Pro Trp Leu  
20 25 30  
Val Gly Leu Ala Ala Val Val Gly Phe Leu Phe Ile Val Tyr Leu Val  
35 40 45  
Leu Leu Ala Asn Arg Leu Trp Cys Ser Lys Ala Arg Ala Glu Asp Glu  
50 55 60  
Glu Glu Thr Thr Phe Arg Met Glu Ser Asn Leu Tyr Gln Asp Gln Ser  
65 70 75 80  
Glu Asp Lys Arg Glu Lys Lys Glu Ala Lys Glu Lys Glu Glu Lys Arg  
85 90 95  
Lys Lys Glu Lys Lys Thr Ala Lys Glu Gly Glu Ser Asn Leu Gly Leu  
100 105 110  
Asp Leu Glu Glu Lys Glu Pro Gly Asp His Glu Arg Ala Lys Ser Thr  
115 120 125  
Val Met  
130

<210> 1226  
<211> 80  
<212> PRT  
<213> Homo sapiens

<400> 1226  
Met Ser Leu Ile Trp Arg Asp Val Tyr Leu Tyr Gly Cys Gly Cys Ile  
1 5 10 15  
Cys His Gly Arg Cys Cys Ala Gly Phe Pro Gln His Ser Arg His Val  
20 25 30  
Trp Arg Thr Asn Ala Gly Leu Ile Leu Pro Gly Asn Arg Val Pro Phe  
35 40 45  
Cys Glu Leu Glu Gly Cys Thr Arg Arg Ser Ser Tyr Trp Asn His Leu  
50 55 60

Val Ile Leu Gly Gly His Trp Gly Leu His Leu Pro Cys Thr Ser Leu  
65 70 75 80

<210> 1227  
<211> 49  
<212> PRT  
<213> Homo sapiens

<400> 1227  
Met Phe Pro Trp Cys Val Cys Val Ile Ala Cys Ile Ser Ala Val Thr  
1 5 10 15  
Pro Leu Ile Gln Gly Phe Thr Phe Cys Ser Phe Ser Tyr Pro Gln Tyr  
20 25 30  
Ser Thr Val Arg Tyr Phe Glu Arg Glu Thr Thr Leu Thr Leu Leu Leu  
35 40 45  
Leu

<210> 1228  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 1228  
Met Met Gly Leu Leu Glu Thr Gly Asn Val Leu Phe Trp Val Trp Val  
1 5 10 15  
Val Val Thr Cys Val Tyr Ser Leu Tyr Ala Asn Ser Leu Asn Cys Thr  
20 25 30  
Asp Met Asp Cys Ala Pro Phe Tyr Met Cys Val Met Leu Gln Gln Lys  
35 40 45  
Cys Gln  
50

<210> 1229  
<211> 280  
<212> PRT  
<213> Homo sapiens

<400> 1229  
Met Ala Pro Ser Gly Ser Leu Ala Val Pro Leu Ala Val Leu Val Leu  
1 5 10 15

Leu Leu Trp Gly Ala Pro Trp Thr His Gly Arg Arg Ser Asn Val Arg  
                   20                                  25                                  30  
 Val Ile Thr Asp Glu Asn Trp Arg Glu Leu Leu Glu Gly AspTrp Met  
                   35                                  40                                  45  
 Ile Glu Phe Tyr Ala Pro Trp Cys Pro Ala Cys Gln Asn Leu Gln Pro  
                   50                                  55                                  60  
 Glu Trp Glu Ser Phe Ala Glu Trp Gly Glu Asp Leu Glu Val Asn Ile  
                   65                                  70                                  75                                  80  
 Ala Lys Val Asp Val Thr Glu Gln Pro Gly Leu Ser Gly Arg Phe Ile  
                                   85                                  90                                  95  
 Ile Thr Ala Leu Pro Thr Ile Tyr His Cys Lys Asp Gly Glu Phe Arg  
                                   100                                  105                                  110  
 Arg Tyr Gln Gly Pro Arg Thr Lys Lys Asp Phe Ile Asn Phe Ile Ser  
                                   115                                  120                                  125  
 Asp Lys Glu Trp Lys Ser Ile Glu Pro Val Ser Ser Trp Phe Gly Pro  
                                   130                                  135                                  140  
 Gly Ser Val Leu Met Ser Ser Met Ser Ala Leu Phe Gln Leu Ser Met  
                                   145                                  150                                  155                                  160  
 Trp Ile Arg Thr Cys His Asn Tyr Phe Ile Glu Asp Leu Gly Leu Pro  
                                   165                                  170                                  175  
 Val Trp Gly Ser Tyr Thr Val Phe Ala Leu Ala Thr Leu Phe Ser Gly  
                                   180                                  185                                  190  
 Leu Leu Leu Gly Leu Cys Met Ile Phe Val Ala Asp Cys Leu Cys Pro  
                                   195                                  200                                  205  
 Ser Lys Arg Arg Arg Pro Gln Pro Tyr Pro Tyr Pro Ser Lys Lys Leu  
                                   210                                  215                                  220  
 Leu Ser Glu Ser Ala Gln Pro Leu Lys Lys Val Glu Glu Glu Gln Glu  
                                   225                                  230                                  235                                  240  
 Ala Asp Glu Glu Asp Val Ser Glu Glu Glu Ala Glu Ser Lys Glu Gly  
                                   245                                  250                                  255  
 Thr Asn Lys Asp Phe Pro Gln Asn Ala Ile Arg Gln Arg Ser Leu Gly  
                                   260                                  265                                  270  
 Pro Ser Leu Ala Thr Asp Lys Ser  
                                   275                                  280

<210> 1230  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens

<400> 1230

Met Leu Thr Gly Ser His Pro Gln Thr His Thr Cys Trp Leu Gly Thr  
1 5 10 15  
Arg Leu Trp Val Val Leu Ser Cys Leu Ala Ser Leu Thr Val Ser Asp  
20 25 30  
Cys Pro Glu His Gln Val Ser Ser Cys Ile Ser Ser Trp Pro Gly Glu  
35 40 45  
His Ser Val Ser Phe Gln Pro Phe Pro Pro Phe Pro His Ser Leu Gly  
50 55 60  
Gly Thr Glu Val Gly Val Glu Glu Ser Gln Met Ala Gly Val Gly Ile  
65 70 75 80

<210> 1231

<211> 110

<212> PRT

<213> Homo sapiens

<400> 1231

Met Tyr Val Thr Leu Val Phe Arg Val Lys Gly Ser Arg Leu Val Lys  
1 5 10 15  
Pro Ser Leu Cys Leu Ala Leu Leu Cys Pro Ala Phe Leu Val Gly Val  
20 25 30  
Val Arg Val Ala Glu Tyr Arg Asn His Trp Ser Asp Val Leu Ala Gly  
35 40 45  
Phe Leu Thr Gly Ala Ala Ile Ala Thr Phe Leu Val Thr Cys Val Val  
50 55 60  
His Asn Phe Gln Ser Arg Pro Pro Ser Gly Arg Arg Leu Ser Pro Gln  
65 70 75 80  
Ser Ala Tyr Pro Arg Leu Pro Gly Pro Gln Phe Pro His Leu His Asn  
85 90 95  
Gly Gly Asp His Pro Cys Pro Ala Gly Cys Gln Glu Arg Leu  
100 105 110

<210> 1232

<211> 318

<212> PRT

<213> Homo sapiens

<400> 1232

Met Ala Lys Arg Thr Phe Ser Asn Leu Glu Thr Phe Leu Ile Phe Leu  
1 5 10 15  
Leu Val Met Met Ser Ala Ile Thr Val Ala Leu Leu Ser Leu Leu Phe  
20 25 30  
Ile Thr Ser Gly Thr Ile Glu Asn His Lys Asp Leu Gly Gly His Phe  
35 40 45  
Phe Ser Thr Thr Gln Ser Pro Pro Ala Thr Gln Gly Ser Thr Ala Ala  
50 55 60  
Gln Arg Ser Thr Ala Thr Gln His Ser Thr Ala Thr Gln Ser Ser Thr  
65 70 75 80  
Ala Thr Gln Thr Ser Pro Val Pro Leu Thr Pro Glu Ser Pro Leu Phe  
85 90 95  
Gln Asn Phe Ser Gly Tyr His Ile Gly Val Gly Arg Ala Asp Cys Thr  
100 105 110  
Gly Gln Val Ala Asp Ile Asn Leu Met Gly Tyr Gly Lys Ser Gly Gln  
115 120 125  
Asn Ala Gln Gly Ile Leu Thr Arg Leu Tyr Ser Arg Ala Phe Ile Met  
130 135 140  
Ala Glu Pro Asp Gly Ser Asn Arg Thr Val Phe Val Ser Ile Asp Ile  
145 150 155 160  
Gly Met Val Ser Gln Arg Leu Arg Leu Glu Val Bu Asn Arg Leu Gln  
165 170 175  
Ser Lys Tyr Gly Ser Leu Tyr Arg Arg Asp Asn Val Ile Leu Ser Gly  
180 185 190  
Thr His Thr His Ser Gly Pro Ala Gly Tyr Phe Gln Tyr Thr Val Phe  
195 200 205  
Val Ile Ala Ser Glu Gly Phe Ser Asn Gln Thr Phe Gln His Met Val  
210 215 220  
Thr Gly Ile Leu Lys Ser Ile Asp Ile Pro His Thr Asn Met Lys Pro  
225 230 235 240  
Gly Lys Ile Phe Ile Asn Lys Gly Asn Val Asp Gly Val Gln Ile Asn  
245 250 255  
Arg Ser Pro Tyr Ser Tyr Leu Gln Asn Pro Gln Ser Glu Arg Ala Arg  
260 265 270  
Tyr Ser Ser Asn Thr Asp Lys Glu Met Ile Val Leu Lys Met Val Asp  
275 280 285  
Leu Asn Gly Asp Asp Leu Gly Leu Ile Ser Phe Ser Phe Ser Lys Ser  
290 295 300

Ala Leu Gly Thr Tyr Tyr Glu Pro Arg Asn Thr Ser Leu Glu  
 305 310 315

<210> 1233  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 1233  
 Met Pro Gly Gly Arg Asp Gly Leu Leu Tyr Bu Tyr His Gly Tyr Ser  
 1 5 10 15  
 Ala Leu Leu Leu Trp Pro Val Ala Phe Leu His Leu Leu Phe Leu Ile  
 20 25 30  
 Leu Leu Gly Met Cys Phe Ala Cys Cys Ile Pro Tr Ser Ser Ala Pro  
 35 40 45  
 Leu His Thr Pro Trp Leu Ala  
 50 55

<210> 1234  
 <211> 163  
 <212> PRT  
 <213> Homo sapiens

<400> 1234  
 Met Gly Ser Thr Trp Gly Ser Pro Gly Trp Val ArgLeu Ala Leu Cys  
 1 5 10 15  
 Leu Thr Gly Leu Val Leu Ser Leu Tyr Ala Leu His Val Lys Ala Ala  
 20 25 30  
 Arg Ala Arg Asp Arg Asp Tyr Arg Ala Leu Cys Asp ValGly Thr Ala  
 35 40 45  
 Ile Ser Cys Ser Arg Val Phe Ser Ser Arg Trp Gly Arg Gly Phe Gly  
 50 55 60  
 Leu Val Glu His Val Leu Gly Gln Asp Ser Ile Leu Asn Gln Ser Asn  
 65 70 75 80  
 Ser Ile Phe Gly Cys Ile Phe Tyr Thr Leu Gln Leu Leu Leu Gly Cys  
 85 90 95  
 Leu Arg Thr Arg Trp Ala Ser Val Leu Met Leu Leu Ser Ser Leu Val  
 100 105 110  
 Ser Leu Ala Gly Ser Val Tyr Leu Ala Trp Ile Leu Phe Phe Val Leu  
 115 120 125  
 Tyr Asp Phe Cys Ile Val Cys Ile Thr Thr Tyr Ala Ile Asn Val Ser  
 130 135 140

Leu Met Trp Leu Ser Phe Arg Lys Val Gln Glu Pro Gln Gly Lys Ala  
 145 150 155 160

Lys Arg His

<210> 1235  
 <211> 113  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (38)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1235  
 Met Arg Pro Leu Leu Leu Gly Gly Tyr Trp Val Leu Cys Leu Ser Val  
 1 5 10 15

Leu Gly His Ala Ala Leu Tyr His Phe Trp Leu Arg Glu Glu Gly Lys  
 20 25 30

Gly Pro Pro Gln Val Xaa Ser Val Leu Ala Leu Ala Leu Pro Ala Gly  
 35 40 45

Ser Cys Ala Pro Gly Leu Pro Phe Pro Gly Pro Leu Ile Pro Thr Gln  
 50 55 60

Leu Leu Phe Ala Leu Glu Trp Gly Thr Pro Thr Pro Leu Arg Asp His  
 65 70 75 80

Pro Pro His Ser Met His Ser Ala Pro Gln Asn Pro Pro Val Phe Leu  
 85 90 95

Gly Thr His Thr Cys Pro Pro Ser Trp Tyr Phe Arg Leu Ile Pro Gln  
 100 105 110

Ala

<210> 1236  
 <211> 275  
 <212> PRT  
 <213> Homo sapiens

<400> 1236  
 Met Thr Ile Thr Ser Phe Tyr Ala Val Cys Phe Tyr Leu Leu Met Leu  
 1 5 10 15

Val Met Val Glu Gly Phe Gly Gly Lys Glu Ala Val Leu Arg Thr Leu  
 20 25 30

Arg Asp Thr Pro Met Met Val His Thr Gly Pro Cys Cys Cys Cys Cys  
 35 40 45  
 Pro Cys Cys Pro Arg Leu Leu Leu Thr Arg Lys Lys Leu Gln Leu Leu  
 50 55 60  
 Met Leu Gly Pro Phe Gln Tyr Ala Phe Leu Lys Ile Thr Leu Thr Leu  
 65 70 75 80  
 Val Gly Leu Phe Leu Ile Pro Asp Gly Ile Tyr Asp Pro Ala Asp Ile  
 85 90 95  
 Ser Glu Gly Ser Thr Ala Leu Trp Ile Asn Thr Phe Leu Gly Val Ser  
 100 105 110  
 Thr Leu Leu Ala Leu Trp Thr Leu Gly Ile Ile Ser Arg Gln Ala Arg  
 115 120 125  
 Leu His Leu Gly Glu Gln Asn Met Gly Ala Lys Phe Ala Leu Phe Gln  
 130 135 140  
 Val Leu Leu Ile Leu Thr Ala Leu Gln Pro Ser Ile Phe Ser Val Leu  
 145 150 155 160  
 Ala Asn Gly Gly Gln Ile Ala Cys Ser Pro Pro Tyr Ser Ser Lys Thr  
 165 170 175  
 Arg Ser Gln Val Met Asn Cys His Leu Leu Ile Leu Glu Thr Phe Leu  
 180 185 190  
 Met Thr Val Leu Thr Arg Met Tyr Tyr Arg Arg Lys Asp His Lys Val  
 195 200 205  
 Gly Tyr Glu Thr Phe Ser Ser Pro Asp Leu Asp Leu Asn Ser Lys Pro  
 210 215 220  
 Lys Val Asp Gly Leu Asp Asn Glu ArgMet Leu Tyr Ser Leu Glu Tyr  
 225 230 235 240  
 Lys Ile Pro Leu Leu Ser Leu Asn Leu Asp Gln Met Gly Ser Ile Pro  
 245 250 255  
 Pro Cys Gln His Lys Leu Ala AspThr Phe Asp Ser Thr Asp Glu Gly  
 260 265 270  
 Glu Gln Cys  
 275

<210> 1237  
 <211> 87  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1237



Met Asp Leu Thr Val Glu Gly Phe Gln Ser Trp Met Trp Arg Gly Leu  
 1 5 10 15  
 Thr Phe Leu Leu Pro Phe Leu Phe Phe Gly His Phe Trp Gln Leu Phe  
 20 25 30  
 Asn Ala Leu Thr Leu Phe Asn Leu Ala Gln Asp Pro Gln Cys Lys Glu  
 35 40 45  
 Trp Gln Val Leu Met Cys Gly Phe Pro Phe Leu Leu Leu Phe Leu Gly  
 50 55 60  
 Asn Phe Phe Thr Thr Leu Arg Val Val His His Lys Phe His Ser Gln  
 65 70 75 80  
 Arg His Gly Ser Lys Lys Asp  
 85

<210> 1238  
 <211> 161  
 <212> PRT  
 <213> Homo sapiens

<400> 1238  
 Met Ala Leu Ser Leu Thr Leu Cys Phe Val Met Phe Trp Thr Pro Asn  
 1 5 10 15  
 Val Ser Glu Lys Ile Leu Ile Asp Ile Ile Gly Val Asp Phe Ala Phe  
 20 25 30  
 Ala Glu Leu Cys Val Val Pro Leu Arg Ile Phe Ser Phe Phe Pro Val  
 35 40 45  
 Pro Val Thr Val Arg Ala His Leu Thr Gly Trp Leu Met Thr Leu Lys  
 50 55 60  
 Lys Thr Phe Val Leu Ala Pro Ser Ser Val Leu Arg Ile Ile Val Leu  
 65 70 75 80  
 Ile Ala Ser Leu Val Val Leu Pro Tyr Leu Gly Val His Gly Ala Thr  
 85 90 95  
 Leu Gly Val Gly Ser Leu Leu Ala Gly Phe Val Gly Glu Ser Thr Met  
 100 105 110  
 Val Ala Ile Ala Ala Cys Tyr Val Tyr Arg Lys Gln Lys Lys Lys Met  
 115 120 125  
 Glu Asn Glu Ser Ala Thr Glu Gly Glu Asp Ser Ala Met Thr Asp Met  
 130 135 140  
 Pro Pro Thr Glu Glu Val Thr Asp Ile Val Glu Met Arg Glu Glu Asn  
 145 150 155 160  
 Glu

<210> 1239  
 <211> 348  
 <212> PRT  
 <213> Homo sapiens

<400> 1239  
 Met Asn Met Thr Gln Ala Arg Val Leu Val Ala Aa Val Val Gly Leu  
 1 5 10 15  
 Val Ala Val Leu Leu Tyr Ala Ser Ile His Lys Ile Glu Glu Gly His  
 20 25 30  
 Leu Ala Val Tyr Tyr Arg Gly Gly Ala Leu Leu Thr Ar Pro Ser Gly  
 35 40 45  
 Pro Gly Tyr His Ile Met Leu Pro Phe Ile Thr Thr Phe Arg Ser Val  
 50 55 60  
 Gln Thr Thr Leu Gln Thr Asp Glu Val Lys Asn Val Pro Cys Gly Thr  
 65 70 75 80  
 Ser Gly Gly Val Met Ile Tyr Ile Asp Arg Ile Glu Val Val Asn Met  
 85 90 95  
 Leu Ala Pro Tyr Ala Val Phe Asp Ile Val Arg Asn Tyr Thr Ala Asp  
 100 105 110  
 Tyr Asp Lys Thr Leu Ile Phe Asn Lys Ile His His Glu Leu Asn Gln  
 115 120 125  
 Phe Cys Ser Ala His Thr Leu Gln Glu Val Tyr Ile Glu Leu Phe Asp  
 130 135 140  
 Gln Ile Asp Glu Asn Leu Lys Gln Ala Leu Gln Lys Asp Leu Asn Leu  
 145 150 155 160  
 Met Ala Pro Gly Leu Thr Ile Gln Ala Val Arg Val Thr Lys Pro Lys  
 165 170 175  
 Ile Pro Glu Ala Ile Arg Arg Asn Phe Glu Leu Met Glu Ala Glu Lys  
 180 185 190  
 Thr Lys Leu Leu Ile Ala Ala Gln Lys Gln Lys Val Val Glu Lys Glu  
 195 200 205  
 Ala Glu Thr Glu Arg Lys Lys Ala Val Ile Glu Ala Glu Lys Ile Ala  
 210 215 220  
 Gln Val Ala Lys Ile Arg Phe Gln Gln Lys Val Met Glu Lys Glu Thr  
 225 230 235 240  
 Glu Lys Arg Ile Ser Glu Ile Glu Asp Ala Ala Phe Leu Ala Arg Glu  
 245 250 255



<210> 1241  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 1241  
 Met Gln Val Ala Cys Val Met Lys Val Ser Ala Gln Trp Val Cys Phe  
 1 5 10 15  
 Phe Val Val Phe Ser Pro Leu Cys Ser Ser Val Lys Cys Ala Ser Ser  
 20 25 30  
 Gly Gln Asn Arg Gly Arg Gly Asp Gln  
 35 40

<210> 1242  
 <211> 116  
 <212> PRT  
 <213> Homo sapiens

<400> 1242  
 Met Thr Pro Leu Leu Thr Leu Ile Leu Val Val Leu Met Gly Leu Pro  
 1 5 10 15  
 Leu Ala Gln Ala Leu Asp Cys His Val Cys Ala Tyr Asn Gly Asp Asn  
 20 25 30  
 Cys Phe Asn Pro Met Arg Cys Pro Ala Met Val Ala Tyr Cys Met Thr  
 35 40 45  
 Thr Arg Thr Tyr Tyr Thr Pro Thr Arg Met Lys Val Ser Lys Ser Cys  
 50 55 60  
 Val Pro Arg Cys Phe Glu Thr Val Tyr Asp Gly Tyr Ser Lys His Ala  
 65 70 75 80  
 Ser Thr Thr Ser Cys Cys Gln Tyr Asp Leu Cys Asn Gly Thr Gly Leu  
 85 90 95  
 Ala Thr Pro Ala Thr Leu Ala Leu Ala Pro Ile Leu Leu Ala Thr Leu  
 100 105 110  
 Trp Gly Leu Leu  
 115

<210> 1243  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 1243

Asp Leu His Ile Lys Leu Leu Glu His Tyr CysLeu Thr Ser Cys Lys  
 1 5 10 15

Lys Val Leu Gln Leu  
 20

<210> 1244  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 1244  
 Met Pro Gly Ile Leu Ala Gly Ile Pro Val Lys Asp Leu Cys LeuSer  
 1 5 10 15

Leu Leu Gln Gly Phe Arg Leu Leu Leu Leu Cys Val Cys Pro Gly Trp  
 20 25 30

Leu Ser Gly Trp Met Gly Gly Gln Lys Gly Ser Pro Arg Ile Val Asp  
 35 40 45

Ile Gly  
 50

<210> 1245  
 <211> 206  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (143)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1245  
 Met Ala Ser His Gly Leu Cys Pro Cys Leu Leu Met Gly Thr Gly Trp  
 1 5 10 15

Gly Leu Trp Thr Leu Leu Pro Asp Leu Glu Val Met Ala Gly Lys Gly  
 20 25 30

Arg Met Pro Phe Ala Gly Ile Ser Val Thr Ser Gly Phe Leu Arg Ser  
 35 40 45

Leu Lys Arg Ala Pro Leu Pro His Thr Gly Ser Pro Asp Pro Arg Pro  
 50 55 60

Ser Gly Ile Trp Ser Gly Val Arg Thr Thr Ser Glu Glu Ala Gly Ala  
 65 70 75 80

Thr Ser Thr Gln Ile Ser Thr Ala Ala Pro Arg Phe His Ser Arg Arg  
 85 90 95

Lys Gly Pro Lys Arg Asn Leu Aa Pro Gln Leu Arg Val Leu Val His  
                   100                  105                  110  
 Arg Thr Val Pro Pro Gly Gln Leu Val Tyr Ala Pro Gln Thr Val Asp  
                   115                  120                  125  
 Ser Leu Arg Gly Thr Leu Leu Arg Pro Pro Aa Trp Leu Leu Xaa Gln  
                   130                  135                  140  
 Val Pro Cys Phe Tyr Ser Gly Gln Pro Leu Leu Val Ser Ala Ser Val  
                   145                  150                  155                  160  
 Leu Cys Arg Asp Leu Met Gln Phe Leu Phe Leu Leu Lys Ser Tyr Leu  
                   165                  170                  175  
 Leu Pro Phe Leu Glu Val Cys Arg Ile Gly Trp Glu Gln Ile Gln Arg  
                   180                  185                  190  
 Ile Leu Gly Ala Gly Leu Trp Arg Gln Lys Glu Gly Asn Tyr  
                   195                  200                  205

<210> 1246

<211> 107

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1246

Met Ala Val Val Leu Ser Xaa Lys Xaa His Arg Gly Xaa Tyr Cys Gly  
   1                  5                  10                  15

Arg Thr Ser Leu Leu Leu Ser Leu Leu Ser Cys Leu Leu Leu Leu  
                   20                  25                  30

Leu Leu Leu Leu Leu Leu Trp Ser Leu Ser Glu Ile Lys Thr Leu  
                   35                  40                  45

Lys Leu Ile Cys Ile Leu Ser Ala Arg Asp Ala Asp Gly Ser Arg Ala  
 50 55 60  
 Lys Ser His Gly Phe Gln Ile Arg Tyr Ser Ala His Ser Phe Gln Gly  
 65 70 75 80  
 His Arg Phe Leu Lys Gly Pro Gly Phe Glu Glu Met Ala Asn Xaa Glu  
 85 90 95  
 Pro Ser Glu Asn Leu Ile Trp Lys Thr Cys Met  
 100 105

<210> 1247  
 <211> 181  
 <212> PRT  
 <213> Homo sapiens

<400> 1247  
 Met Ala Ser Phe Leu Lys Gly Ile Thr Ala Thr Val Leu Ile Asn Ala  
 1 5 10 15  
 Cys Val Ala Asn Thr Val Ala Pro Leu His Tyr Lys Asp Met Ile Ile  
 20 25 30  
 Pro Lys Leu Val Asp Asp Leu Gly Lys Val Lys Ile Thr Lys Ser Gly  
 35 40 45  
 Phe Leu Thr Phe Met Asp Thr Trp Ser Asn Pro Leu Glu Glu His Asn  
 50 55 60  
 His Gln Ser Leu Val Pro Leu Glu Lys Ala Gln Val Pro Phe Leu Phe  
 65 70 75 80  
 Ile Val Gly Met Asp Asp Gln Ser Trp Lys Ser Glu Phe Tyr Ala Gln  
 85 90 95  
 Ile Ala Ser Glu Arg Leu Gln Ala His Gly Lys Glu Arg Pro Gln Ile  
 100 105 110  
 Ile Cys Tyr Pro Glu Thr Gly His Cys Ile Asp Pro Pro Tyr Phe Pro  
 115 120 125  
 Pro Ser Arg Ala Ser Val His Ala Val Leu Gly Glu Ala Ile Phe Tyr  
 130 135 140  
 Gly Gly Glu Pro Lys Ala His Ser Lys Ala Gln Val Asp Ala Trp Gln  
 145 150 155 160  
 Gln Ile Gln Thr Phe Phe His Lys His Leu Asn Gly Lys Lys Ser Val  
 165 170 175  
 Lys His Ser Lys Ile  
 180

<210> 1248  
 <211> 190  
 <212> PRT  
 <213> Homo sapiens

<400> 1248  
 Met Pro Val Pro Thr Leu Cys Leu Leu Trp Ala Leu Ala Met Val Thr  
   1                  5                  10                  15  
 Arg Pro Ala Ser Ala Ala Pro Met Gly Gly ProGlu Leu Ala Gln His  
                   20                  25                  30  
 Glu Glu Leu Thr Leu Leu Phe His Gly Thr Leu Gln Leu Gly Gln Ala  
           35                  40                  45  
 Leu Asn Gly Val Tyr Arg Thr Thr Glu Gly Arg Leu Thr LysAla Arg  
       50                  55                  60  
 Asn Ser Leu Gly Leu Tyr Gly Arg Thr Ile Glu Leu Leu Gly Gln Glu  
   65                  70                  75                  80  
 Val Ser Arg Gly Arg Asp Ala Ala Gln Glu Leu Arg Ala Ser Leu Leu  
                   85                  90                  95  
 Glu Thr Gln Met Glu Glu Asp Ile Leu Gln Leu Gln Ala Glu Ala Thr  
           100                  105                  110  
 Ala Glu Val Leu Gly Glu Val Ala Gln Ala Gln Lys Val Leu Arg Asp  
       115                  120                  125  
 Ser Val Gln Arg Leu Glu Val Gln Leu Arg Ser Ala Trp Leu Gly Pro  
       130                  135                  140  
 Ala Tyr Arg Glu Phe Glu Val Leu Lys Ala His Ala Asp Lys Gln Ser  
   145                  150                  155                  160  
 His Ile Leu Trp Ala Leu Thr Gly His Val Gln Arg Gln Arg Arg Glu  
           165                  170                  175  
 Met Val Ala Gln Gln His Arg Leu Arg Gln Ile Gln Glu Arg  
       180                  185                  190

<210> 1249  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<400> 1249  
 Met Lys Ser Gln Ser Pro Leu Arg Ser Met Leu Leu Val Gly Gly Leu  
   1                  5                  10                  15  
 Val Ser Val Leu Ala GluHis Leu Gln His Pro Gln Ser Arg Gln Pro  
       20                  25                  30



Pro Leu Ser His Leu Ser Ser His Leu Thr Trp Asp Ala Gln Val Glu  
 35 40 45

Leu Asp Arg Ile Phe Leu Ser Ile ArgPro Pro Glu Val Pro  
 50 55 60

<210> 1250  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1250  
 Met Leu Xaa Gln Phe Phe Leu Phe Val Cys Phe His Phe Ile Thr Tyr  
 1 5 10 15

Gly Phe Leu Cys His Thr Thr Arg Asn Phe Glu Lys  
 20 25

<210> 1251  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (7)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (13)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (22)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1251  
 Met Ile Leu Phe Pro Gln Xaa Ala Leu Arg Leu Gly Xaa Trp Pro Arg  
 1 5 10 15

Thr Trp Ser Ile Leu Xaa Lys Tyr Ser Val Asn Phe Phe Ser Ala Tyr  
 20 25 30

Ser Pro Met Gly Ala Val Gly Thr Glu Phe  
 35 40

<210> 1252  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 1252  
 Met Leu Pro Ser Asn Trp Ser Gly Thr Trp Ala Leu Ile Gln Leu Ser  
   1                  5                  10                  15  
 Ile Pro Phe Thr Leu Ala Phe His Gln Pro Asn Lys Asn Gln Leu Thr  
           20                  25                  30  
 Gln Lys Lys Arg Lys Ala Pro Gln Gly Ser Phe Asp Pro Asp Ile Tyr  
           35                  40                  45  
 Ile Asp Ala Ile Gly Val Pro  
       50                  55

<210> 1253  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 1253  
 Met Phe Cys Phe Tyr Leu His Phe Ile Phe His Val Leu Ser Tyr Lys  
   1                  5                  10                  15  
 Leu Asn Pro Leu Leu Phe Phe Ser Cys Ser Cys Phe Cys Phe Ile Leu  
           20                  25                  30  
 Val Phe Leu Phe Pro Asp Tyr His Leu Gly Met  
       35                  40

<210> 1254  
 <211> 319  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (264)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (303)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1254  
 Met Asn Thr Asp His Leu Arg Leu Thr Val Pro Asn Gly Ile Gly Ala

1	5	10	15
Leu Lys Leu Arg Glu Met Glu His Tyr Phe Ser Gln Gly Leu Ser Val	20	25	30
Gln Leu Phe Asn Asp Gly Ser Lys Gly Lys Leu Asn His Leu Cys Gly	35	40	45
Ala Asp Phe Val Lys Ser His Gln Lys Pro Pro Gln Gly Met Glu Ile	50	55	60
Lys Ser Asn Glu Arg Cys Cys Ser Phe Asp Gly Asp Ala Asp Arg Ile	65	70	75
Val Tyr Tyr Tyr His Asp Ala Asp Gly His Phe His Leu Ile Asp Gly	85	90	95
Asp Lys Ile Ala Thr Leu Ile Ser Ser Phe Leu Lys Glu Leu Leu Val	100	105	110
Glu Ile Gly Glu Ser Leu Asn Ile Gly Val Val Gln Thr Ala Tyr Ala	115	120	125
Asn Gly Ser Ser Thr Arg Tyr Leu Glu Glu Val Met Lys Val Pro Val	130	135	140
Tyr Cys Thr Lys Thr Gly Val Lys His Leu His His Lys Ala Gln Glu	145	150	155
Phe Asp Ile Gly Val Tyr Phe Glu Ala Asn Gly His Gly Thr Ala Leu	165	170	175
Phe Ser Thr Ala Val Glu Met Lys Ile Lys Gln Ser Ala Glu Gln Leu	180	185	190
Glu Asp Lys Lys Arg Lys Ala Ala Lys Met Leu Glu Asn Ile Ile Asp	195	200	205
Leu Phe Asn Gln Ala Ala Gly Asp Ala Ile Ser Asp Met Leu Val Ile	210	215	220
Glu Ala Ile Leu Ala Leu Lys Gly Leu Thr Val Gln Gln Trp Asp Ala	225	230	235
Leu Tyr Thr Asp Leu Pro Asn Arg Gln Leu Lys Val Gln Val Ala Asp	245	250	255
Arg Arg Val Ile Ser Thr Thr Xaa Ala Glu Arg Gln Ala Val Thr Pro	260	265	270
Pro Gly Leu Gln Glu Ala Ile Asn Asp Leu Val Lys Lys Tyr Lys Leu	275	280	285
Ser Arg Ala Phe Val Arg Pro Ser Gly Thr Glu Asp Val Val Xaa Ser	290	295	300
Ile Cys Arg Ser Arg Leu Thr Arg Lys Cys Arg Ser Pro Cys Thr			

305

310

315

<210> 1255

<211> 187

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1255

Met Gly Phe Phe Leu Val Leu Val Met Glu Gln Ile Thr Leu Ala Tyr  
1 5 10 15

Lys Glu Gln Ser Gly Pro Ser Pro Leu Glu Glu Thr Arg Ala Leu Leu  
20 25 30

Gly Thr Val Asn Gly Gly Pro Gln His Trp His Asp Gly Pro Gly Val  
35 40 45

Pro Gln Ala Ser Gly Ala Pro Ala Thr Pro Ser Ala Leu Arg Ala Asn  
50 55 60

Val Leu Val Phe Ser Leu Ala Leu His Ser Val Phe Glu Gly Leu Ala  
65 70 75 80

Val Gly Leu Gln Arg Asp Arg Ala Arg Ala Met Glu Leu Cys Leu Ala  
85 90 95

Leu Leu Leu His Lys Gly Ile Leu Ala Val Ser Leu Ser Leu Arg Leu  
100 105 110

Leu Gln Ser His Leu Arg Ala Gln Val Val Ala Gly Cys Gly Ile Leu  
115 120 125

Phe Ser Cys Met Thr Pro Leu Gly Ile Gly Leu Gly Ala Ala Leu Ala  
130 135 140

Glu Ser Ala Gly Pro Leu His Gln Leu Ala Gln Ser Val Leu Glu Gly  
145 150 155 160

Met Ala Ala Gly Thr Phe Xaa Tyr Ile Thr Phe Leu Glu Ile Leu Leu  
165 170 175

Phe His Pro Lys Phe Lys Gly Val Ser Arg Arg  
180 185

<210> 1256

<211> 113

<212> PRT

<213> Homo sapiens

<400> 1256  
Met Ile Leu Ser Leu Leu Phe Ser Leu Gly Gly Pro Leu Gly Trp Gly  
1 5 10 15  
Leu Leu Gly Ala Trp Ala Gln Ala Ser Ser Thr Ser Leu Ser AspLeu  
20 25 30  
Gln Ser Ser Arg Thr Pro Gly Val Trp Lys Ala Glu Ala Glu Asp Thr  
35 40 45  
Ser Lys Asp Pro Val Gly Arg Asn Trp Cys Pro Tyr Pro Met Ser Lys  
50 55 60  
Leu Val Thr Leu Leu Ala Leu Cys Lys Thr Glu Lys Phe Leu Ile His  
65 70 75 80  
Ser Gln Gln Pro Cys Pro Gln Glu Leu Gln Thr Ala Arg Lys Ser Lys  
85 90 95  
Ser Cys Thr Ala Trp Pro Thr Ser Gln Cys Thr Arg Ser Ser Arg Arg  
100 105 110  
Cys

<210> 1257  
<211> 140  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (36)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 1257  
Met Phe Leu Phe Gly Gly Phe Leu Met Thr Leu Phe Gly Leu Phe Val  
1 5 10 15  
Ser Leu Val Phe Leu Gly Gln Ala Phe Thr Ile Met Leu Val Tyr Val  
20 25 30  
Trp Ser Arg Xaa Asn Pro Tyr Val Arg Met Asn Phe Phe Gly Leu Leu  
35 40 45  
Asn Phe Gln Ala Pro Phe Leu Pro Trp Val Leu Met Gly Phe Ser Leu  
50 55 60  
Leu Leu Gly Asn Ser Ile Ile Val Asp Leu Leu Gly Ile Ala Val Gly  
65 70 75 80  
His Ile Tyr Phe Phe Leu Glu Asp Val Phe Pro Asn Gln Phe Gly Gly  
85 90 95

Ile Arg Ile Leu Lys Thr Pro Ser Ile Leu Lys Ala Ile Phe Asp Thr  
100 105 110  
Pro Asp Glu Asp Pro Asn Tyr Asn Pro Leu Pro Glu Glu Arg Pro Gly  
115 120 125  
Gly Phe Ala Trp Gly Glu Gly Gln Arg Leu Gly Gly  
130 135 140

<210> 1258  
<211> 278  
<212> PRT  
<213> Homo sapiens

<400> 1258  
Met Gln Trp Leu Arg Val Arg Glu Ser Pro Gly Glu Ala Thr Gly His  
1 5 10 15  
Arg Val Thr Met Gly Thr Ala Ala Leu Gly Pro Val Trp Ala Ala Leu  
20 25 30  
Leu Leu Phe Leu Leu Met Cys Glu Ile Pro Met Val Glu Leu Thr Phe  
35 40 45  
Asp Arg Ala Val Ala Ser Asp Cys Gln Arg Cys Cys Asp Ser Glu Asp  
50 55 60  
Pro Leu Asp Pro Ala His Val Ser Ser Ala Ser Arg Ser Gly Arg Pro  
65 70 75 80  
His Ala Leu Pro Glu Ile Arg Pro Tyr Ile Asn Ile Thr Ile Leu Lys  
85 90 95  
Gly Asp Lys Gly Asp Pro Gly Pro Met Gly Bu Pro Gly Tyr Met Gly  
100 105 110  
Arg Glu Gly Pro Gln Gly Glu Pro Gly Pro Gln Gly Ser Lys Gly Asp  
115 120 125  
Lys Gly Glu Met Gly Ser Pro Gly Ala Pro Cys Gln Lys Arg Phe Phe  
130 135 140  
Ala Phe Ser Val Gly Arg Lys Thr Ala Leu His Ser Gly Glu Asp Phe  
145 150 155 160  
Gln Thr Leu Leu Phe Glu Arg Val Phe Val Asn Leu Asp Gly Cys Phe  
165 170 175  
Asp Met Ala Thr Gly Gln Phe Ala Ala Pro Leu Arg Gly Ile Tyr Phe  
180 185 190  
Phe Ser Leu Asn Val His Ser Trp Asn Tyr Lys Glu Thr Tyr Val His  
195 200 205  
Ile Met His Asn Gln Lys Glu Ala Val Ile Leu Tyr Ala Gln Pro Ser

210                      215                      220  
 Glu Arg Ser Ile Met Gln Ser Gln Ser Val Met Leu Asp Leu Ala Tyr  
 225                      230                      235                      240  
 Gly Asp Arg Val Trp Val Arg Leu Phe Lys Arg Gln Arg Glu Asn Ala  
                     245                      250                      255  
 Ile Tyr Ser Asn Asp Phe Asp Thr Tyr Ile Thr Phe Ser Gly His Leu  
                     260                      265                      270  
 Ile Lys Ala Glu Asp Asp  
                     275

<210> 1259  
 <211> 354  
 <212> PRT  
 <213> Homo sapiens

<400> 1259  
 Met Trp Arg Leu Trp Pro Gly Ser Pro Leu Val Pro Leu Ser Trp Leu  
 1                      5                      10                      15  
 Trp Pro Ala Arg Ala Ala Phe Leu Ser Gly Pro Trp Thr Leu Pro Pro  
                     20                      25                      30  
 Cys Leu Pro Asp Pro Leu Leu Ala Val Pro Lys Cys Cys Leu Thr Leu  
                     35                      40                      45  
 Gly Ile His Leu Leu Pro Ala Trp Pro Gly Pro Pro Val Gly Gly Gly  
                     50                      55                      60  
 Cys Ser Gln Leu His Arg Gly Cys Cys Tyr Pro Gly Met Gly Cys Leu  
                     65                      70                      75                      80  
 Asn Arg Asp Leu Cys Pro Pro Ser Leu Val Ser Arg Arg Trp Gly Asp  
                     85                      90                      95  
 Gln Leu Leu Trp Ser Pro Asp Gly Ser Lys Ile Leu Ala Thr Thr Pro  
                     100                      105                      110  
 Ser Ala Val Phe Arg Val Trp Glu Ala Gln Met Trp Thr Cys Glu Arg  
                     115                      120                      125  
 Trp Pro Thr Leu Ser Gly Arg Cys Gln Thr Gly Cys Trp Ser Pro Asp  
                     130                      135                      140  
 Gly Ser Arg Leu Leu Phe Thr Val Leu Gly Glu Pro Leu Ile Tyr Ser  
                     145                      150                      155                      160  
 Leu Ser Phe Pro Glu Arg Cys Gly Glu Gly Lys Gly Cys Val Gly Gly  
                     165                      170                      175  
 Ala Lys Ser Ala Thr Ile Val Ala Asp Leu Ser Glu Thr Thr Ile Gln  
                     180                      185                      190

Thr Pro Asp Gly Glu Glu Arg Leu Gly Gly Glu Ala His Ser Met Val  
 195 200 205  
 Trp Asp Pro Ser Gly Glu Arg Leu Ala Val Leu Met Lys Gly Lys Pro  
 210 215 220  
 Arg Val Gln Asp Gly Lys Pro Val Ile Leu Leu Phe Arg Thr Arg Asn  
 225 230 235 240  
 Ser Pro Val Phe Glu Leu Leu Pro Cys Gly Ile Ile Gln Gly Glu Pro  
 245 250 255  
 Gly Ala Gln Pro Gln Leu Ile Thr Phe His Leu Pro Ser Thr Lys Gly  
 260 265 270  
 Pro Cys Ser Val Trp Ala Gly Pro Gln Ala Glu Leu Pro Thr Ser Arg  
 275 280 285  
 Cys Thr Leu Ser Met Pro Ser Phe His Val Leu Ala Gln Cys Leu Gly  
 290 295 300  
 Gly Pro Arg Asn Pro Leu Leu Gly Val Glu Ala Leu Phe Met Thr Cys  
 305 310 315 320  
 Pro Ser Leu Leu Arg His Pro Gln Pro Leu Pro Leu Gly Thr Leu Ser  
 325 330 335  
 Gln Gly His His Leu Phe Cys Pro Thr Pro His Ile Pro Thr Ser Lys  
 340 345 350  
 Asn Lys

<210> 1260  
 <211> 338  
 <212> PRT  
 <213> Homo sapiens

<400> 1260  
 Met Arg Lys Pro Ala Ala Gly Phe Leu Pro Ser Leu Leu Lys Val Leu  
 1 5 10 15  
 Leu Leu Pro Leu Ala Pro Ala Ala Ala Gln Asp Ser Thr Gln Ala Ser  
 20 25 30  
 Thr Pro Gly Ser Pro Leu Ser Pro Thr Glu Tyr Glu Arg Phe Phe Ala  
 35 40 45  
 Leu Leu Thr Pro Thr Trp Lys Ala Glu Thr Thr Cys Arg Leu Arg Ala  
 50 55 60  
 Thr His Gly Cys Arg Asn Pro Thr Leu Val Gln Leu Asp Gln Tyr Glu  
 65 70 75 80



Asn His Gly Leu Val Pro Asp Gly Ala Val Cys Ser Asn Leu Pro Tyr  
                     85                    90                    95  
 Ala Ser Trp Phe Glu Ser Phe Cys Gln Phe Thr His Tyr Arg Cys Ser  
                     100                    105                    110  
 Asn His Val Tyr Tyr Ala Lys Arg Val Leu Cys Ser Gln Pro Val Ser  
                     115                    120                    125  
 Ile Leu Ser Pro Asn Thr Leu Lys Glu Ile Glu Ala Ser Ala Glu Val  
                     130                    135                    140  
 Ser Pro Thr Thr Met Thr Ser Pro Ile Ser Pro His Phe Thr Val Thr  
                     145                    150                    155                    160  
 Glu Arg Gln Thr Phe Gln Pro Trp Pro Glu Arg Leu Ser Asn Asn Val  
                     165                    170                    175  
 Glu Glu Leu Leu Gln Ser Ser Leu Ser Leu Gly Ser Gln Glu Gln Ala  
                     180                    185                    190  
 Pro Glu His Lys Gln Glu Gln Gly Val Glu His Arg Gln Glu Pro Thr  
                     195                    200                    205  
 Gln Glu His Lys Gln Glu Glu Gly Gln Lys Gln Glu Glu Gln Glu Glu  
                     210                    215                    220  
 Glu Gln Glu Glu Glu Gly Lys Gln Glu Glu Gly Gln Gly Thr Lys Glu  
                     225                    230                    235                    240  
 Gly Arg Glu Ala Val Ser Gln Leu Gln Thr Asp Ser Glu Pro Lys Phe  
                     245                    250                    255  
 His Ser Glu Ser Leu Ser Ser Asn Pro Ser Ser Phe Ala Pro Arg Val  
                     260                    265                    270  
 Arg Glu Val Glu Ser Thr Pro Met Ile Met Glu Asn Ile Gln Glu Leu  
                     275                    280                    285  
 Ile Arg Ser Ala Gln Glu Ile Asp Glu Met Asn Glu Ile Tyr Asp Glu  
                     290                    295                    300  
 Asn Ser Tyr Trp Arg Asn Gln Asn Pro Gly Ser Leu Leu Gln Leu Pro  
                     305                    310                    315                    320  
 His Thr Glu Pro Cys Trp Cys Cys Ala Ile Arg Ser Trp Arg Ile Pro  
                     325                    330                    335  
 Ala Ser

<210> 1261  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 1261  
 Met Ile Arg Ile Gln Phe Leu His Leu Phe Leu Trp Val Gly Phe Ile  
 1 5 10 15  
 Phe Arg Gln Pro Pro Ser Ser Tyr Pro Gln Asp Gly Arg Asp Ser Pro  
 20 25 30  
 Trp Ser Phe Pro Cys Arg Asp Arg Ser Pro Gly Asn Asn Thr Ser Ile  
 35 40 45  
 Pro Ser His Glu Thr Val Leu Asn Phe Ile Leu Thr  
 50 55 60

<210> 1262  
 <211> 63  
 <212> PRT  
 <213> Homo sapiens

<400> 1262  
 Met Asp Thr Asp Asn Gly Gly Arg His Phe Lys Pro Phe Lys Leu Val  
 1 5 10 15  
 Leu Phe Val Val Leu Leu Ile Lys Ile Leu Leu Ile Leu Ala Lys Thr  
 20 25 30  
 Asn Cys Cys Asp Lys Leu Val Phe Phe Gly Cys Phe Lys His Thr Leu  
 35 40 45  
 Thr Asn Phe Leu Ile Pro Leu Leu Val Pro Pro Ile Val Leu Lys  
 50 55 60

<210> 1263  
 <211> 298  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (87)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1263  
 Met Phe Phe Phe Phe Asp Ser Val Gln Val Val PheThr Ile Cys Thr  
 1 5 10 15  
 Ala Val Leu Ala Thr Ile Ala Phe Ala Phe Leu Leu Leu Pro Met Cys  
 20 25 30  
 Gln Tyr Leu Thr Arg Pro Cys Ser Pro Gln Asn Lys IleSer Phe Gly  
 35 40 45  
 Cys Cys Gly Arg Phe Thr Ala Ala Glu Leu Leu Ser Phe Ser Leu Ser

50	55	60
Val Met Leu Val Leu Ile Trp Val Leu Thr Gly His Trp Leu Leu Met		
65	70	75 80
Asp Ala Leu Ala Met Gly Xaa Cys Val Ala Met Ile Ala Phe Val Arg		
	85	90 95
Leu Pro Ser Leu Lys Val Ser Cys Leu Leu Leu Ser Gly Leu Leu Ile		
	100	105 110
Tyr Asp Val Phe Trp Val Phe Phe Ser Ala Tyr Ile Phe Asn Ser Asn		
	115	120 125
Val Met Val Lys Val Ala Thr Gln Pro Ala Asp Asn Pro Leu Asp Val		
	130	135 140
Leu Ser Arg Lys Leu His Leu Gly Pro Asn Val Gly Arg Asp Val Pro		
	145	150 155 160
Arg Leu Ser Leu Pro Gly Lys Leu Val Phe Pro Ser Ser Thr Gly Ser		
	165	170 175
His Phe Ser Met Leu Gly Ile Gly Asp Ile Val Met Pro Gly Leu Leu		
	180	185 190
Leu Cys Phe Val Leu Arg Tyr Asp Asn Tyr Lys Lys Gln Ala Ser Gly		
	195	200 205
Asp Ser Cys Gly Ala Pro Gly Pro Ala Asn Ile Ser Gly Arg Met Gln		
	210	215 220
Lys Val Ser Tyr Phe His Cys Thr Leu Ile Gly Tyr Phe Val Gly Leu		
	225	230 235 240
Leu Thr Ala Thr Val Ala Ser Arg Ile His Arg Ala Ala Gln Pro Ala		
	245	250 255
Leu Leu Tyr Leu Val Pro Phe Thr Leu Leu Pro Leu Leu Thr Met Ala		
	260	265 270
Tyr Leu Lys Gly Asp Leu Arg Arg Met Trp Ser Glu Pro Phe His Ser		
	275	280 285
Lys Ser Ser Ser Ser Arg Phe Leu Glu Val		
	290	295

<210> 1264  
 <211> 232  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (36)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1264

Met Ala Ile Ser Ile Pro Asn Arg Ile Phe Pro Ile Thr Ala Leu Thr  
1 5 10 15

Leu Leu Ala Leu Val Tyr Ser Leu Val LeuLeu Leu Pro Phe Tyr Asn  
20 25 30

Cys Thr Glu Xaa Thr Lys Tyr Arg Arg Phe Pro Asp Trp Leu Asp His  
35 40 45

Trp Met Leu Cys Arg Lys Gln Leu Gly Leu Val Ala LeuGly Phe Ala  
50 55 60

Phe Leu Xaa Val Leu Xaa Xaa Leu Val Ile Pro Ile Arg Tyr Tyr Val  
65 70 75 80

Arg Xaa Arg Leu Gly Asn Leu Thr Val Thr Gln Xaa Ile Leu LysLys  
85 90 95

Glu Asn Pro Phe Ser Thr Ser Ser Ala Trp Leu Ser Asp Ser Tyr Val  
100 105 110

Ala Leu Gly Ile Leu Gly Phe Phe Leu Phe Val Leu Leu Gly Ile Thr  
115 120 125

Ser Leu Pro Ser Val Ser Asn Ala Val Asn Trp Arg Glu Phe Arg Phe  
130 135 140

Val Gln Ser Lys Leu Gly Tyr Leu Thr Leu Ile Leu Cys Thr Ala His  
145 150 155 160

Thr Leu Val Tyr Gly Gly Lys Arg Phe Leu Ser Pro Ser Asn Leu Arg  
 165 170 175  
 Trp Tyr Leu Pro Ala Ala Tyr Val Leu Gly Leu Ile Ile Pro Cys Thr  
 180 185 190  
 Val Leu Val Ile Lys Phe Val Leu Ile Met Pro Cys Val Asp Asn Thr  
 195 200 205  
 Leu Thr Arg Ile Arg Arg Ala Gly Lys Gly Thr Gln Asn Thr Arg Lys  
 210 215 220  
 Ser Ile Glu Trp Lys Ile Asn Ile  
 225 230

<210> 1265  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 1265  
 Met Glu Pro Trp Ser Trp Phe Phe Phe Phe Phe Phe Phe Pro Gln  
 1 5 10 15  
 Arg Thr Cys Gly Cys Ala Leu Cys Val Leu Phe Leu Phe Ser Ile Trp  
 20 25 30  
 Gly Pro His Gly Lys Glu Leu Leu Asn Ser Phe Leu Tyr Glu Leu Pro  
 35 40 45  
 Leu Cys Ser Tyr Lys Gly Pro Phe Leu Ser  
 50 55

<210> 1266  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 1266  
 Met Thr Leu Ser Leu Gln Leu Ala Glu Leu Val His Phe Val Cys Ala  
 1 5 10 15  
 Phe Gln Ser Gln Trp Thr Gly Val Tyr Pro Met Met Pro Pro Leu Lys  
 20 25 30  
 Pro Thr Glu Pro Leu Cys Phe Ala Cys Val Pro Cys Arg Val  
 35 40 45

<210> 1267  
 <211> 47

<212> PRT  
<213> Homo sapiens

<400> 1267  
Met Gln Ser Gly Arg Ser Trp Ala Leu Lys Met Val Leu Leu Cys Asn  
1 5 10 15  
Ser Cys Leu Gly Leu Gly Val Gly Ser Val GlyPro Ser Met Ser Ser  
20 25 30  
Leu Phe Gly Ala Val Leu Ser Glu Thr Pro Gly Ser Ser Val Tyr  
35 40 45

<210> 1268  
<211> 77  
<212> PRT  
<213> Homo sapiens

<400> 1268  
Met Ser Val Trp Pro Arg Ser Thr Leu Leu Phe Cys Leu Leu Ser Leu  
1 5 10 15  
Ser Thr Gly Leu Phe Leu Asp Lys Leu Gly Ile Ile Ile Pro Ile Leu  
20 25 30  
Leu Cys Gly Trp Lys Val Lys Cys Asp Asn Asp Val Cys Glu Met Pro  
35 40 45  
Ala Gln Cys Leu Glu Val Leu Lys Asn Tyr Leu Leu Pro Phe Leu Phe  
50 55 60  
Leu Pro Thr Thr Tyr Pro Leu Pro Pro Gly Ala Thr Cys  
65 70 75

<210> 1269  
<211> 83  
<212> PRT  
<213> Homo sapiens

<400> 1269  
Met Ala Ser Pro Gly Trp His Leu Ser Cys Arg Pro Thr Gly Leu Val  
1 5 10 15  
Ser Ile Phe Leu Leu Cys Ala Pro Ala Tyr Leu His Ser Phe Val Met  
20 25 30  
Thr Ser Ile Thr Leu Ile Ser Thr Lys Ile Cys Ser Pro Thr Lys Leu  
35 40 45  
Arg His Arg Thr His Phe Leu Tyr Gly Ser Ile Met Glu Leu Tyr Pro  
50 55 60  
Thr Leu Thr Phe Pro Met Thr Thr Asp Val Glu Asn Leu Asn Leu Asp

65                                      70                                      75                                      80  
 Ser Ser Arg  
  
 <210> 1270  
 <211> 222  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1270  
 Met Tyr Leu Ser Ile Ile Phe Leu Ala Phe Val Ser Ile Asp Arg Cys  
   1                                  5                                  10                                  15  
 Leu Gln Leu Thr His Ser Gys Lys Ile Tyr Arg Ile Gln Glu Pro Gly  
                                   20                                  25                                  30  
 Phe Ala Lys Met Ile Ser Thr Val Val Trp Leu Met Val Leu Leu Ile  
                                   35                                  40                                  45  
 Met Val Pro Asn Met Met Ile Pro Ile Lys Asp Ile Lys Glu Lys Ser  
                                   50                                  55                                  60  
 Asn Val Gly Cys Met Glu Phe Lys Lys Glu Phe Gly Arg Asn Trp His  
   65                                  70                                  75                                  80  
 Leu Leu Thr Asn Phe Ile Cys Val Ala Ile Phe Bu Asn Phe Ser Ala  
                                   85                                  90                                  95  
 Ile Ile Leu Ile Ser Asn Cys Leu Val Ile Arg Gln Leu Tyr Arg Asn  
                                   100                                  105                                  110  
 Lys Asp Asn Glu Asn Tyr Pro Asn Val Lys Lys Ala Bu Ile Asn Ile  
                                   115                                  120                                  125  
 Leu Leu Val Thr Thr Gly Tyr Ile Ile Cys Phe Val Pro Tyr His Ile  
   130                                  135                                  140  
 Val Arg Ile Pro Tyr Thr Leu Ser Gln Thr Glu Val Ile Thr Asp Cys  
  145                                  150                                  155                                  160  
 Ser Thr Arg Ile Ser Leu Phe Lys Ala Lys Glu Ala Thr Leu Leu Leu  
                                   165                                  170                                  175  
 Ala Val Ser Asn Leu Cys Phe Asp Pro Ile Leu Tyr Tyr His Leu Ser  
                                   180                                  185                                  190  
 Lys Ala Phe Arg Ser Lys Val Thr Glu Thr Phe Ala Ser Pro Lys Glu  
   195                                  200                                  205  
 Thr Lys Ala Gln Lys Glu Lys Leu Arg Cys Glu Asn Asn Ala  
   210                                  215                                  220

<210> 1271  
 <211> 70  
 <212> PRT  
 <213> Homo sapiens

<400> 1271  
 Met Phe Ser Arg Leu His Phe Leu Thr His Ser Leu Ser Leu Leu His  
   1                  5                  10                  15  
 Leu Pro Ser Gln Val Phe Gly Glu Val His Ser Ser Cys Val Ser Ser  
                   20                  25                  30  
 Leu Pro Cys Pro Asp Thr Pro Ala Leu Pro Tyr Cys Pro Ser Phe Leu  
           35                  40                  45  
 Arg Tyr Asp Asp His Ile Glu Ala Gln Pro Leu Lys His Ile Asn Thr  
   50                  55                  60  
 Asn Asp His Ile Ser Ile  
   65                  70

<210> 1272  
 <211> 73  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (24)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1272  
 Met Gly Phe Trp Cys Gly Cys Pro Phe Cys Leu Leu Val Phe Leu Leu  
   1                  5                  10                  15  
 Thr Val Arg Thr Arg Ser Phe Xaa Ser Val Gly Val Cys Trp Arg Ser  
           20                  25                  30  
 Thr Pro Asp Pro Leu Cys Leu Gly Ile Ser Ser Arg Ser Cys Arg Thr  
           35                  40                  45  
 Ala Asp Ile Gly Glu Gln Gln Met Leu Leu Pro Asp Arg Ser Ser Gly  
   50                  55                  60  
 Ser Phe Val Ser Glu Tyr Pro Ala Met  
   65                  70

<210> 1273  
 <211> 88  
 <212> PRT  
 <213> Homo sapiens

<400> 1273



Met Val Ala Gly Phe Val Phe Tyr Leu Gly Val Phe Val Val Cys His  
 1 5 10 15  
 Gln Leu Ser Ser Ser Leu Asn Ala Thr Tyr Arg Ser Leu Val Ala Arg  
 20 25 30  
 Glu Lys Val Phe Trp Asp Leu Ala Ala Thr Arg Ala Val Phe Gly Val  
 35 40 45  
 Gln Ser Thr Ala Ala Ala Val Gly Ser Ala Gly Gly Pro Cys Ala Ala  
 50 55 60  
 Cys Arg Gln Gly Ala Trp Pro Ala Glu Leu Val Leu Val Ser His His  
 65 70 75 80  
 Asp Ser Asn Gly Ile Leu Leu Leu  
 85

<210> 1274  
 <211> 713  
 <212> PRT  
 <213> Homo sapiens

<400> 1274  
 Met Leu Leu Ala Thr Leu Leu Leu Leu Leu Gly Gly Ala Leu Ala  
 1 5 10 15  
 His Pro Asp Arg Ile Ile Phe Pro Asn His Ala Cys Glu Asp Pro Pro  
 20 25 30  
 Ala Val Leu Leu Glu Val Gln Gly Thr Leu Gln Arg Pro Leu Val Arg  
 35 40 45  
 Asp Ser Arg Thr Ser Pro Ala Asn Cys Thr Trp Leu Ile Leu Gly Ser  
 50 55 60  
 Lys Glu Gln Thr Val Thr Ile Arg Phe Gln Lys Leu His Leu Ala Cys  
 65 70 75 80  
 Gly Ser Glu Arg Leu Thr Leu Arg Ser Pro Leu Gln Pro Leu Ile Ser  
 85 90 95  
 Leu Cys Glu Ala Pro Pro Ser Pro Leu Gln Leu Pro Gly Gly Asn Val  
 100 105 110  
 Thr Ile Thr Tyr Ser Tyr Ala Gly Ala Arg Ala Pro Met Gly Gln Gly  
 115 120 125  
 Phe Leu Leu Ser Tyr Ser Gln Asp Trp Leu Met Cys Leu Gln Glu Glu  
 130 135 140  
 Phe Gln Cys Leu Asn His Arg Cys Val Ser Ala Val Gln Arg Cys Asp  
 145 150 155 160  
 Gly Val Asp Ala Cys Gly Asp Gly Ser Asp Glu Ala Gly Cys Ser Ser

165										170										175										
Asp	Pro	Phe	Pro	Gly	Leu	Thr	Pro	Arg	Pro	Val	Pro	Ser	Leu	Pro	Cys															
			180					185					190																	
Asn	Val	Thr	Leu	Glu	Asp	Phe	Tyr	Gly	Val	Phe	Ser	Ser	Pro	Gly	Tyr															
		195					200					205																		
Thr	His	Leu	Ala	Ser	Val	Ser	His	Pro	Gln	Ser	Cys	His	Trp	Leu	Leu															
		210				215					220																			
Asp	Pro	His	Asp	Gly	Arg	Arg	Leu	Ala	Val	Arg	Phe	Thr	Ala	Leu	Asp															
225					230					235				240																
Leu	Gly	Phe	Gly	Asp	Ala	Val	His	Val	Tyr	Asp	Gly	Pro	Gly	Pro	Pro															
				245					250				255																	
Glu	Ser	Ser	Arg	Leu	Leu	Arg	Ser	Leu	Thr	His	Phe	Ser	Asn	Gly	Lys															
			260					265					270																	
Ala	Val	Thr	Val	Glu	Thr	Leu	Ser	Gly	Gln	Ala	Val	Val	Ser	Tyr	His															
		275					280					285																		
Thr	Val	Ala	Trp	Ser	Asn	Gly	Arg	Gly	Phe	Asn	Ala	Thr	Tyr	His	Val															
		290				295					300																			
Arg	Gly	Tyr	Cys	Leu	Pro	Trp	Asp	Arg	Pro	Cys	Gly	Leu	Gly	Ser	Gly															
305					310					315				320																
Leu	Gly	Ala	Gly	Glu	Gly	Leu	Gly	Glu	Arg	Cys	Tyr	Ser	Glu	Ala	Gln															
				325				330					335																	
Arg	Cys	Asp	Gly	Ser	Trp	Asp	Cys	Ala	Asp	Gly	Thr	Asp	Glu	Glu	Asp															
			340					345					350																	
Cys	Pro	Gly	Cys	Pro	Pro	Gly	His	Phe	Pro	Cys	Gly	Ala	Ala	Gly	Thr															
		355					360					365																		
Ser	Gly	Ala	Thr	Ala	Cys	Tyr	Leu	Pro	Ala	Asp	Arg	Cys	Asn	Tyr	Gln															
		370				375					380																			
Thr	Phe	Cys	Ala	Asp	Gly	Ala	Asp	Glu	Arg	Arg	Cys	Arg	His	Cys	Gln															
385					390				395					400																
Pro	Gly	Asn	Phe	Arg	Cys	Arg	Asp	Glu	Lys	Cys	Val	Tyr	Glu	Thr	Trp															
				405				410					415																	
Val	Cys	Asp	Gly	Gln	Pro	Asp	Cys	Ala	Asp	Gly	Ser	Asp	Glu	Trp	Asp															
			420					425					430																	
Cys	Ser	Tyr	Val	Leu	Pro	Arg	Lys	Val	Ile	Thr	Ala	Ala	Val	Ile	Gly															
		435					440					445																		
Ser	Leu	Val	Cys	Gly	Leu	Leu	Leu	Val	Ile	Ala	Leu	Gly	Cys	Thr	Cys															
		450				455					460																			
Lys	Leu	Tyr	Ala	Ile	Arg	Thr	Gln	Glu	Tyr	Ser	Ile	Phe	Ala	Pro	Leu															



Ala Leu Leu Arg Leu Lys Ala Ser Leu Ala Ala Asp Ile Pro Arg Leu  
                   20                                  25                                  30  
 Gly Tyr Ser Ser Ser Ser His His Lys Tyr Ile Pro Arg Arg Ala Val  
                   35                                  40                                  45  
 Leu Tyr Val Pro Gly Asn Asp Glu Lys Lys Ile Lys Lys Ile Pro Ser  
                   50                                  55                                  60  
 Leu Asn Val Asp Cys Ala Val Leu Asp Cys Glu Asp Gly Val Ala Ala  
                   65                                  70                                  75                                  80  
 Asn Lys Lys Asn Glu Ala Arg Leu Arg Ile Val Lys Thr Leu Glu Asp  
                                   85                                  90                                  95  
 Ile Asp Leu Gly Pro Thr Glu Lys Cys Val Arg Val Asn Ser Val Ser  
                   100                                  105                                  110  
 Ser Gly Leu Ala Glu Glu Asp Leu Glu Thr Leu Leu Gln Ser Arg Val  
                   115                                  120                                  125  
 Leu Pro Ser Ser Leu Met Leu Pro Lys Val Glu Ser Pro Glu Glu Ile  
                   130                                  135                                  140  
 Gln Trp Phe Ala Asp Lys Phe Ser Phe His Leu Lys Gly Arg Lys Leu  
                   145                                  150                                  155                                  160  
 Glu Gln Pro Met Asn Leu Ile Pro Phe Val Glu Thr Ala Met Gly Leu  
                                   165                                  170                                  175  
 Leu Asn Phe Lys Ala Val Cys Glu Glu Thr Leu Lys Val Gly Pro Gln  
                   180                                  185                                  190  
 Val Gly Leu Phe Leu Asp Ala Val Val Phe Gly Gly Glu Asp Phe Arg  
                   195                                  200                                  205  
 Ala Ser Ile Gly Ala Thr Ser Ser Lys Glu Thr Leu Asp Ile Leu Tyr  
                   210                                  215                                  220  
 Ala Arg Gln Lys Ile Val Val Ile Ala Lys Ala Phe Gly Leu Gln Ala  
                   225                                  230                                  235                                  240  
 Val Asp Leu Val Tyr Ile Asp Phe Arg Asp Gly Ala Gly Leu Leu Arg  
                   245                                  250                                  255  
 Gln Ser Arg Glu Gly Ala Ala Met Gly Phe Thr Gly Lys Gln Val Ile  
                   260                                  265                                  270  
 His Pro Asn Gln Ile Ala Val Val Gln Glu Gln Phe Ser Pro Ser Pro  
                   275                                  280                                  285  
 Glu Lys Ile Lys Trp Ala Glu Glu Leu Ile Ala Ala Phe Lys Glu His  
                   290                                  295                                  300  
 Gln Gln Leu Gly Lys Gly Ala Phe Thr Phe Gln Gly Ser Met Ile Asp  
                   305                                  310                                  315                                  320

Met Pro Leu Leu Lys Gln Ala Gln Asn Thr Val Thr Leu Ala Thr Ser  
 325 330 335

Ile Lys Glu Lys  
 340

<210> 1276  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<400> 1276  
 Met Gly Leu Trp Phe Pro Met Leu Ile Leu Thr Gln Arg Phe Val Ser  
 1 5 10 15

Cys Asp Ser His Pro Asp Pro Lys His Thr His Thr His Ala His Ile  
 20 25 30

Asn Thr His Thr His Arg His Val His Thr Gln Thr His Met His Thr  
 35 40 45

His Ile His Thr Pro Trp Phe Glu Glu Lys Arg Asp Gly Asn Arg His  
 50 55 60

Ser Thr His Ala Tyr Ser Ala Pro Leu Cys Ile Gly Asn  
 65 70 75

<210> 1277  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1277  
 Met Ala Cys Cys Asn Pro Tyr Lys Tyr Tyr Phe Tyr Leu Ser Cys Ser  
 1 5 10 15

Val Cys Phe Leu  
 20

<210> 1278  
 <211> 82  
 <212> PRT  
 <213> Homo sapiens

<400> 1278  
 Met Lys Lys Val Ala Arg Leu Ser Ser Leu Gly His Val Val Trp Arg  
 1 5 10 15

Leu Tyr Ala Arg Val Leu Ala Leu Ile Thr Cys Ile Phe Trp Val Leu  
 20 25 30

Ala Leu Ile Ile Cys Ile Phe Thr Pro Gln Ile Phe Phe Lys His Leu  
35 40 45  
Leu His Ala Arg Pro Cys Ser Arg Tyr Arg Arg Tyr Asn Ser Lys Asn  
50 55 60  
Thr Asp Leu Ala Leu Met Lys Leu Lys Leu Leu Arg Gln Ala Asp Ser  
65 70 75 80  
Asp Lys

<210> 1279  
<211> 88  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (71)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 1279  
Met Ser Gly Ser Ser Leu Pro Arg Ala Leu Ala Leu Ser Leu Leu Leu  
1 5 10 15  
Val Ser Gly Ser Leu Leu Pro Gly Pro Gly Ala Ala Gln Asn Val Lys  
20 25 30  
Ser Thr Ile Trp Thr Gly Ser Glu Val Glu Asn Glu Val Val Lys Arg  
35 40 45  
Lys Gly Lys Asp Arg Arg Lys Ala Ala Val Val Gln Gly Glu Lys Gln  
50 55 60  
Asp Ala Arg Leu Lys Glu Xaa Asn Leu Cys Leu Arg Ser Ile Pro Glu  
65 70 75 80  
Asn Tyr Lys Leu Phe Arg Lys Gly  
85

<210> 1280  
<211> 54  
<212> PRT  
<213> Homo sapiens

<400> 1280  
Met Tyr Arg Phe Phe Leu Cys Val Asp Leu Ser Phe Gln Leu Leu Trp  
1 5 10 15  
Val Ile Pro Arg Ser Thr Val Thr Gly Thr Tyr Gly Lys Asp Ile Phe  
20 25 30

Ser Leu Ala Gly Asn His His Thr Val Phe Gln Ser Ser Cys Thr Ile  
 35 40 45

Leu His Thr His Gln His  
 50

<210> 1281  
 <211> 266  
 <212> PRT  
 <213> Homo sapiens

<400> 1281  
 Met Trp Trp Phe Gln Gln Gly Leu Ser Phe Leu Pro Ser Ala Leu Val  
 1 5 10 15

Ile Trp Thr Ser Ala Ala Phe Ile Phe Ser Tyr Ile Thr Ala Val Thr  
 20 25 30

Leu His His Ile Asp Pro Ala Leu Pro Tyr Ile Ser Asp Thr Gly Thr  
 35 40 45

Val Ala Pro Glu Lys Cys Leu Phe Gly Ala Met Leu Asn Ile Ala Ala  
 50 55 60

Val Leu Cys Ile Ala Thr Ile Tyr Val Arg Tyr Lys Gln Val His Ala  
 65 70 75 80

Leu Ser Pro Glu Glu Asn Val Ile Ile Lys Leu Asn Lys Ala Gly Leu  
 85 90 95

Val Leu Gly Ile Leu Ser Cys Leu Gly Leu Ser Ile Val Ala Asn Phe  
 100 105 110

Gln Lys Thr Thr Leu Phe Ala Ala His Val Ser Gly Ala Val Leu Thr  
 115 120 125

Phe Gly Met Gly Ser Leu Tyr Met Phe Val Gln Thr Ile Leu Ser Tyr  
 130 135 140

Gln Met Gln Pro Lys Ile His Gly Lys Gln Val Phe Trp Ile Arg Leu  
 145 150 155 160

Leu Leu Val Ile Trp Cys Gly Val Ser Ala Leu Ser Met Leu Thr Cys  
 165 170 175

Ser Ser Val Leu His Ser Gly Asn Phe Gly Thr Asp Leu Glu Gln Lys  
 180 185 190

Leu His Trp Asn Pro Glu Asp Lys Gly Tyr Val Leu His Met Ile Thr  
 195 200 205

Thr Ala Ala Glu Trp Ser Met Ser Phe Ser Phe Phe Gly Phe Phe Leu  
 210 215 220

Thr Tyr Ile Arg Asp Phe Gln Lys Ile Ser Leu Arg Val Glu Ala Asn  
 225 230 235 240  
 Leu His Gly Leu Thr Leu Tyr Asp Thr Ala Pro Cys Pro Ile Asn Asn  
 245 250 255  
 Glu Arg Thr Arg Leu Leu Ser Arg Asp Ile  
 260 265

<210> 1282  
 <211> 97  
 <212> PRT  
 <213> Homo sapiens

<400> 1282  
 Met Ile Leu Leu Leu Ser Leu Phe Gln Gly Val Arg Gly Ser Leu Gly  
 1 5 10 15  
 Ser Pro Gly Asn Arg Glu Asn Lys Glu Lys Lys Val Phe Ile Ser Leu  
 20 25 30  
 Val Gly Ser Arg Gly Leu Gly Cys Ser Ile Ser Ser Gly Pro Ile Gln  
 35 40 45  
 Lys Pro Gly Ile Phe Ile Ser His Val Lys Pro Gly Ser Leu Ser Ala  
 50 55 60  
 Glu Val Gly Leu Glu Ile Gly Asp Gln Ile Val Glu Val Asn Gly Val  
 65 70 75 80  
 Asp Phe Ser Asn Leu Asp His Lys Glu Leu Gln Leu Ala Gly Ser Cys  
 85 90 95  
 Ser

<210> 1283  
 <211> 334  
 <212> PRT  
 <213> Homo sapiens

<400> 1283  
 Met Gly Ile Phe Pro Gly Ile Ile Leu Ile Phe Leu Arg Val Lys Phe  
 1 5 10 15  
 Ala Thr Ala Ala Val Ile Val Ser Gly Val Ser Lys His Leu His Cys  
 20 25 30  
 Ile Ser His Gln Lys Ser Thr Thr Val Ser His Glu Met Ser Gly Leu  
 35 40 45  
 Asn Trp Lys Pro Phe Val Tyr Gly Gly Leu Ala Ser Ile Val Ala Glu  
 50 55 60



Phe Gly Thr Phe Pro Val Asp Leu Thr Lys Thr Arg Leu Gln Val Gln  
 65 70 75 80  
 Gly Gln Ser Ile Asp Ala Arg Phe Lys Glu Ile Lys Tyr Arg Gly Met  
 85 90 95  
 Phe His Ala Leu Phe Arg Ile Cys Lys Glu Glu Gly Val Leu Ala Leu  
 100 105 110  
 Tyr Ser Gly Ile Ala Pro Ala Leu Leu Arg Gln Ala Ser Tyr Gly Thr  
 115 120 125  
 Ile Lys Ile Gly Ile Tyr Gln Ser Leu Lys Arg Leu Phe Val Glu Arg  
 130 135 140  
 Leu Glu Asp Glu Thr Leu Leu Ile Asn Met Ile Cys Gly Val Val Ser  
 145 150 155 160  
 Gly Val Ile Ser Ser Thr Ile Ala Asn Pro Thr Asp Val Leu Lys Ile  
 165 170 175  
 Arg Met Gln Ala Gln Gly Ser Leu Phe Gln Gly Ser Met Ile Gly Ser  
 180 185 190  
 Phe Ile Asp Ile Tyr Gln Gln Glu Gly Thr Arg Gly Leu Trp Arg Gly  
 195 200 205  
 Val Val Pro Thr Ala Gln Arg Ala Ala Ile Val Val Gly Val Glu Leu  
 210 215 220  
 Pro Val Tyr Asp Ile Thr Lys Lys His Leu Ile Leu Ser Gly Met Met  
 225 230 235 240  
 Gly Asp Thr Ile Leu Thr His Phe Val Ser Ser Phe Thr Cys Gly Leu  
 245 250 255  
 Ala Gly Ala Leu Ala Ser Asn Pro Val Asp Val Val Arg Thr Arg Met  
 260 265 270  
 Met Asn Gln Arg Ala Ile Val Gly His Val Asp Leu Tyr Lys Gly Thr  
 275 280 285  
 Val Asp Gly Ile Leu Lys Met Trp Lys His Glu Gly Phe Phe Ala Leu  
 290 295 300  
 Tyr Lys Gly Phe Trp Pro Asn Trp Leu Arg Leu Gly Pro Trp Asn Ile  
 305 310 315 320  
 Ile Phe Phe Ile Thr Tyr Glu Gln Leu Lys Arg Leu Gln Ile  
 325 330

<210> 1284  
 <211> 49  
 <212> PRT

<213> Homo sapiens

<400> 1284

Met Asn Val Phe Val Gly Pro Leu Ser Val Ala Ile Val Ile Phe Cys  
1 5 10 15

Trp Ile Thr Met Tyr Trp Val Ser Ile Val Met Gly Gln Gly Arg Gly  
20 25 30

Gln Tyr Thr Trp Arg Thr Ile Leu Ser Thr Ser Thr Pro Ser Val Cys  
35 40 45

Ser

<210> 1285

<211> 50

<212> PRT

<213> Homo sapiens

<400> 1285

Met Val Cys Cys Gly Phe Phe Leu Leu Trp Ser Arg Val Arg Ser Tyr  
1 5 10 15

Met Lys Leu Ser Gly His Arg Trp Ser Ser Ser Cys Pro His His Cys  
20 25 30

Tyr Ser Lys Cys Gly Leu His Thr Ser Asn Gly Lys Ser Ser Val His  
35 40 45

Thr Val  
50

<210> 1286

<211> 142

<212> PRT

<213> Homo sapiens

<400> 1286

Met Pro Gly Pro Cys Leu Ser Gln Gln His Pro Phe Leu Ser Leu Ser  
1 5 10 15

Leu Phe Pro Phe Cys Leu Trp Ile Cys Leu Ala Arg Val Pro Gly Val  
20 25 30

Arg Asn Ile Cys Lys Thr Gln Pro Ala Pro Ser Gln Pro Ser Leu Leu  
35 40 45

Gly Leu Gly Leu Ser His Pro Ala Ala Gly Thr Thr Asp Ala Gly Thr  
50 55 60

Gln Ser Leu Pro Arg Ser Gln His Lys Cys Thr Ser Ala Leu Trp Gly  
65 70 75 80

Leu Cys Pro Ala Gln Arg Pro Leu Leu Leu Pro Ala His Ile His Ser  
                             85                            90                            95  
 Ser Gly His Gly Ala Pro Gln Glu Leu Gln Ser His Leu Ser His Arg  
                             100                            105                            110  
 Leu Pro Ala Ser Ala Ser Leu Ser Met Met Ser Pro Phe Ser Glu Ala  
                             115                            120                            125  
 Trp Thr His Pro Ser Leu Ser Leu Gly Pro Ala Pro Ser His  
                             130                            135                            140

<210> 1287  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<400> 1287  
 Met Tyr Thr Lys Leu Met Leu Asn Lys Val Leu Leu Phe Trp Gln Ile  
   1                            5                            10                            15  
 Val Lys Cys Lys Val Leu Val Asp Gln Tyr Cys Tyr Asn Phe Gly Ala  
                             20                            25                            30  
 Lys Leu Leu His Ala Asp Trp Leu Trp Asp Leu Val His Phe Leu Arg  
                             35                            40                            45  
 Thr Asn Val Glu Phe Glu Lys Thr Pro  
                             50                            55

<210> 1288  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 1288  
 Met Ser Ser Phe Thr Leu Gly Leu Leu Phe Leu Phe Ile Phe Thr Thr  
   1                            5                            10                            15  
 Ala Glu Asn Tyr Leu Ile Leu Phe Gln Arg Lys Tyr Cys Leu Val Ile  
                             20                            25                            30  
 Phe Trp Gly Glu Phe  
                             35

<210> 1289  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<400> 1289

Met Gln Leu Cys Val Ile Trp Phe Thr Val Ile Phe Leu Ser Gln Ser  
1 5 10 15  
Ser Arg Leu Val Lys Glu Lys Ile Ser Asn Thr Ser Gly Glu Lys Gly  
20 25 30  
Arg Trp Pro Ala Ile Asp Val Val Ala Leu Cys Pro Ser Arg Thr Ala  
35 40 45  
Gly Ile Ser Phe Pro Arg His Phe Leu Tyr Val Ser Cys Ile Val Gly  
50 55 60  
Cys Thr Asn Ile Ile Cys Ser Phe Gly Phe Pro Gly Gln  
65 70 75

<210> 1290

<211> 92

<212> PRT

<213> Homo sapiens

<400> 1290

Met Ala Ala Gly Pro Ser Gly Cys Leu Val Pro Ala Phe Gly Leu Arg  
1 5 10 15  
Leu Leu Leu Ala Thr Val Leu Gln Ala Val Ser Ala Phe Gly Ala Glu  
20 25 30  
Phe Ser Ser Glu Ala Cys Arg Glu Leu Gly Phe Ser Ser Asn Leu Leu  
35 40 45  
Cys Ser Ser Cys Asp Leu Leu Gly Gln Phe Asn Leu Leu Gln Leu Asp  
50 55 60  
Pro Asp Cys Arg Gly Cys Cys Gln Glu Glu Ala Gln Phe Glu Thr Lys  
65 70 75 80  
Lys Leu Tyr Ala Gly Ala Ile Leu Glu Val Cys Gly  
85 90

<210> 1291

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1291

Met Ser Asp Lys Leu Ser Pro Ser Thr Val Pro Leu Leu Leu Pro Val  
1 5 10 15

Leu Phe Lys Val Thr Ile Leu Leu Gln Arg Val Cys Pro Glu Asp Ser  
 20 25 30

Pro Ser Ser Ser Val Ieu Pro Glu Ser Val Xaa Arg Glu  
 35 40 45

<210> 1292  
 <211> 103  
 <212> PRT  
 <213> Homo sapiens

<400> 1292  
 Met Ala Phe Leu Leu Glu Arg Ser Gly Thr Leu Leu Ile Cys Ser Met  
 1 5 10 15  
 Trp Trp His His Gly Tyr Ser Asn Ile Thr Gly Thr Glu Gly Glu Arg  
 20 25 30  
 Arg Asn Leu Lys Arg Asn Lys Thr Asn Phe Arg Arg Phe Gln Asp Gly  
 35 40 45  
 Arg Ile Gly Thr Ala Pro Val Tyr Ser Ser Gln Cys Glu Arg Cys Arg  
 50 55 60  
 Arg Trp Val Ile Ser Ala Phe Pro Thr Glu Gln Thr Ala His Gln Lys  
 65 70 75 80  
 Ile Ile Ser His Ala Trp Leu Gly Gly Ser His Ala His Gly Ala Ser  
 85 90 95  
 Leu Ile Ala Ser Thr Ala Val  
 100

<210> 1293  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<400> 1293  
 Met Met Leu Gln Ile Ile His Leu Asn Thr Leu Ile Lys Phe Phe Gln  
 1 5 10 15  
 Cys Leu Lys Leu Phe Leu His Gly Thr Ala Gly Ser Gly Gln Lys Cys  
 20 25 30  
 Leu Ala Tyr Lys Phe Ser Gln Phe Pro Ser Ile Ile Pro Ala Ala His  
 35 40 45  
 Lys Lys Val His His Leu Leu Ser Pro Lys Cys Leu Pro Thr Glu Cys  
 50 55 60  
 Ser Gln Ala Asp Asn Ser Ser Trp Asp Ser Ala Val Trp

65

70

75

&lt;210&gt; 1294

&lt;211&gt; 49

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1294

Met Ala Pro Arg Asn Gln Gly Ser Phe Ser Phe Gly Asn Phe Met Leu  
 1 5 10 15

Phe Leu Val Leu Ile Glu Arg Arg Tyr Leu Pro Phe Leu Ser Pro Ile  
 20 25 30

Leu Phe Cys Cys Ser Thr His Asn Arg Ser Ala Val Thr Ala Thr Asn  
 35 40 45

Leu

&lt;210&gt; 1295

&lt;211&gt; 73

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1295

Met His Ala Tyr Ala Cys Val Cys Ala Cys Met Leu Val Cys Val Cys  
 1 5 10 15

Val Cys Val Cys Arg Ala Leu Val IlePro Thr Glu Gln Arg His Arg  
 20 25 30

Arg Val Ala His Gly Arg Thr Ser Asp Ser Thr Leu Pro Cys Thr Val  
 35 40 45

Lys Ile Trp Pro Ser Glu Arg Gly Asp Gly Arg GlyGlu Arg Gly Glu  
 50 55 60

Arg Arg Arg Gly Thr Asp Trp Arg Gly  
 65 70

&lt;210&gt; 1296

&lt;211&gt; 957

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1296

Met Ala Leu Leu His Trp Gly Ala Leu Trp Arg Gln La Ala Ser Pro  
 1 5 10 15

Cys Gly Ala Trp Ala Leu Arg Asp Thr Pro Ile Pro Arg Trp Lys Leu

20                      25                      30

Ser Ser Ala Glu Thr Tyr Ser Arg Met Arg Leu Lys Leu Val Pro Asn  
          35                      40                      45

His His Phe Asp Pro His Leu Glu Ala Ser Ala Leu Arg Asp Asn Leu  
      50                      55                      60

Gly Glu Val Pro Leu Thr Pro Thr Glu Glu Ala Ser Leu Pro Leu Ala  
      65                      70                      75                      80

Val Thr Lys Glu Ala Lys Val Ser Thr Pro Pro Glu Leu Leu Gln Glu  
          85                      90                      95

Asp Gln Leu Gly Glu Asp Glu Leu Ala Glu Leu Glu Thr Pro Met Glu  
          100                      105                      110

Ala Ala Glu Leu Asp Glu Gln Arg Glu Lys Leu Val Leu Ser Ala Glu  
          115                      120                      125

Cys Gln Leu Val Thr Val Val Ala Val Val Pro Gly Leu Leu Glu Val  
      130                      135                      140

Thr Thr Gln Asn Val Tyr Phe Tyr Asp Gly Ser Thr Glu Arg Val Glu  
      145                      150                      155                      160

Thr Glu Glu Gly Ile Gly Tyr Asp Phe Arg Arg Pro Leu Ala Gln Leu  
          165                      170                      175

Arg Glu Val His Leu Arg Arg Phe Asn Leu Arg Arg Ser Ala Leu Glu  
          180                      185                      190

Leu Phe Phe Ile Asp Gln Ala Asn Tyr Phe Leu Asn Phe Pro Cys Lys  
      195                      200                      205

Val Gly Thr Thr Pro Val Ser Ser Pro Ser Gln Thr Pro Arg Pro Gln  
      210                      215                      220

Pro Gly Pro Ile Pro Pro His Thr Gln Val Arg Asn Gln Val Tyr Ser  
      225                      230                      235                      240

Trp Leu Leu Arg Leu Arg Pro Pro Ser Gln Gly Tyr Leu Ser Ser Arg  
          245                      250                      255

Ser Pro Gln Glu Met Leu Arg Ala Ser Gly Leu Thr Gln Lys Trp Val  
          260                      265                      270

Gln Arg Glu Ile Ser Asn Phe Glu Tyr Leu Met Gln Leu Asn Thr Ile  
      275                      280                      285

Ala Gly Arg Thr Tyr Asn Asp Leu Ser Gln Tyr Pro Val Phe Pro Trp  
      290                      295                      300

Val Leu Gln Asp Tyr Val Ser Pro Thr Leu Asp Leu Ser Asn Pro Ala  
      305                      310                      315                      320

Val Phe Arg Asp Leu Ser Lys Pro Ile Gly Val Val Asn Pro Lys His

325 330 335

Ala Gln Leu Val Arg Glu Lys Tyr Glu Ser Phe Glu Asp Pro Ala Gly  
340 345 350

Thr Ile Asp Lys Phe His Tyr Gly Thr His Tyr Ser Asn Ala Ala Gly  
355 360 365

Val Met His Tyr Leu Ile Arg Val Glu Pro Phe Thr Ser Leu His Val  
370 375 380

Gln Leu Gln Ser Gly Arg Phe Asp Cys Ser Asp Arg Gln Phe His Ser  
385 390 395 400

Val Ala Ala Ala Trp Gln Ala Arg Leu Glu Ser Pro Ala Asp Val Lys  
405 410 415

Glu Leu Ile Pro Glu Phe Phe Tyr Phe Pro Asp Phe Leu Glu Asn Gln  
420 425 430

Asn Gly Phe Asp Leu Gly Cys Leu Gln Leu Thr Asn Glu Lys Val Gly  
435 440 445

Asp Val Val Leu Pro Pro Trp Ala Ser Ser Pro Glu Asp Phe Ile Gln  
450 455 460

Gln His Arg Gln Ala Leu Glu Ser Glu Tyr Val Ser Ala His Leu His  
465 470 475 480

Glu Trp Ile Asp Leu Ile Phe Gly Tyr Lys Gln Arg Gly Pro Ala Ala  
485 490 495

Glu Glu Ala Leu Asn Val Phe Tyr Tyr Cys Thr Tyr Glu Gly Ala Val  
500 505 510

Asp Leu Asp His Val Thr Asp Glu Arg Glu Arg Lys Ala Leu Glu Gly  
515 520 525

Ile Ile Ser Asn Phe Gly Gln Thr Pro Cys Gln Leu Leu Lys Glu Pro  
530 535 540

His Pro Thr Arg Leu Ser Ala Glu Glu Ala Ala His Arg Leu Ala Arg  
545 550 555 560

Leu Asp Thr Asn Ser Pro Ser Ile Phe Gln His Leu Asp Glu Leu Lys  
565 570 575

Ala Phe Phe Ala Glu Val Val Ser Asp Gly Val Pro Leu Val Leu Ala  
580 585 590

Leu Val Pro His Arg Gln Pro His Ser Phe Ile Thr Gln Gly Ser Pro  
595 600 605

Asp Leu Leu Val Thr Val Ser Ala Ser Gly Leu Leu Gly Thr His Ser  
610 615 620

Trp Leu Pro Tyr Asp Arg Asn Ile Ser Asn Tyr Phe Ser Phe Ser Lys





930                                      935                                      940  
 Ser Ser Gly Glu Thr Glu Tyr Asn Pro Thr Glu Ala Arg  
 945                                      950                                      955  
  
 <210> 1297  
 <211> 221  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (51)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <400> 1297  
 Met Ala Leu Ala Leu Ala Ala Leu Ala Ala Val Glu Pro Ala Cys Gly  
       1                                      5                                      10                                      15  
 Ser Arg Tyr Gln Gln Leu Gln Asn Glu Glu Glu Ser Gly Glu Pro Glu  
                                     20                                      25                                      30  
 Gln Ala Ala Gly Asp Ala Pro Pro Pro Tyr Ser Ser Ile Ser Ala Glu  
                                     35                                      40                                      45  
 Ser Ala Xaa Tyr Phe Asp Tyr Lys Asp Gu Ser Gly Phe Pro Lys Pro  
       50                                      55                                      60  
 Pro Ser Tyr Asn Val Ala Thr Thr Leu Pro Ser Tyr Asp Glu Ala Glu  
       65                                      70                                      75                                      80  
 Arg Thr Lys Ala Glu Ala Thr Ile Pro Leu Val Po Gly Arg Asp Glu  
                                     85                                      90                                      95  
 Asp Phe Val Gly Arg Asp Asp Phe Asp Asp Ala Asp Gln Leu Arg Ile  
                                     100                                      105                                      110  
 Gly Asn Asp Gly Ile Phe Met Leu Thr Phe Phe Met Aa Phe Leu Phe  
                                     115                                      120                                      125  
 Asn Trp Ile Gly Phe Phe Leu Ser Phe Cys Leu Thr Thr Ser Ala Ala  
       130                                      135                                      140  
 Gly Arg Tyr Gly Ala Ile Ser Gly Phe Gly Leu Ser Leu Ile Lys Trp  
       145                                      150                                      155                                      160  
 Ile Leu Ile Val Arg Phe Ser Thr Tyr Phe Pro Gly Tyr Phe Asp Gly  
                                     165                                      170                                      175  
 Gln Tyr Trp Leu Trp Trp Val Phe Leu Val Leu Gly Phe Leu Leu Phe  
                                     180                                      185                                      190  
 Leu Arg Gly Phe Ile Asn Tyr Ala Lys Val Arg Lys Met Pro Glu Thr  
       195                                      200                                      205

Phe Ser Asn Leu Pro Arg Thr Arg Val Leu Phe Ile Tyr  
 210 215 220

<210> 1298  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 1298  
 Met Cys His Phe Ser Ala Leu Ser Phe Thr Phe Cys Val Leu Pro Leu  
 1 5 10 15  
 Ala Phe Ser Phe Leu Gln Lys His Cys Tyr Phe Thr His Lys Phe Gly  
 20 25 30  
 Gln Asn Val Gln Tyr Ser His Phe Arg Val Ser Phe Gln Trp Lys Lys  
 35 40 45

<210> 1299  
 <211> 91  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (89)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1299  
 Met Met Asp Phe Leu Arg Cys Val Thr Ala Ala Leu Ile Tyr Phe Ala  
 1 5 10 15  
 Ile Ser Ile Thr Ala Ile Ala Lys Tyr Ser Asp Gly Ala Ser Lys Ala  
 20 25 30  
 Ala Gly Gly Ser Val Pro Asp Thr Arg Ala Val Cys Pro Ser Arg Ser  
 35 40 45  
 Glu Met Gly Arg Glu Leu Gly Ala Ala Ala Ser Arg Glu Gln Gly Val  
 50 55 60  
 Ser Pro Val Met His Pro Ile His Pro Val His Arg Cys Leu Ala Ser  
 65 70 75 80  
 Leu Leu Pro Ser Cys Leu Gln Leu Xaa Ser Thr  
 85 90

<210> 1300

<211> 68  
 <212> PRT  
 <213> Homo sapiens

<400> 1300  
 Met Arg Lys Val Thr Ile Ser Lys Lys His Ala Leu Leu Leu Cys Phe  
           1                  5                  10                  15  
 Gln Leu Phe Arg Cys Leu Leu Ser Met Tyr Ile Trp Ile Thr Phe Val  
                   20                  25                  30  
 Leu Asp Gly Ser Cys Glu Ser Thr Val Leu Ser Asn Arg Ser Leu Ser  
           35                  40                  45  
 Leu Val Pro Ile Ile Val Tyr Ile Ala Gln Leu Pro Glu Phe Asp Ser  
           50                  55                  60  
 Ser Val Gln Arg  
           65

<210> 1301  
 <211> 490  
 <212> PRT  
 <213> Homo sapiens

<400> 1301  
 Met Arg Pro Ala Phe Ala Leu Cys Leu Leu Trp Gln Ala Leu Trp Pro  
           1                  5                  10                  15  
 Gly Pro Gly Gly Gly Glu His Pro Thr Ala Asp Arg Ala Gly Cys Ser  
                   20                  25                  30  
 Ala Ser Gly Ala Cys Tyr Ser Leu His His Ala Thr Met Lys Arg Gln  
           35                  40                  45  
 Ala Ala Glu Glu Ala Cys Ile Leu Arg Gly Gly Ala Leu Ser Thr Val  
           50                  55                  60  
 Arg Ala Gly Ala Glu Leu Arg Ala Val Leu Ala Leu Leu Arg Ala Gly  
           65                  70                  75                  80  
 Pro Gly Pro Gly Gly Gly Ser Lys Asp Leu Leu Phe Trp Val Ala Leu  
                   85                  90                  95  
 Glu Arg Arg Arg Ser His Cys Thr Leu Glu Asn Glu Pro Leu Arg Gly  
           100                  105                  110  
 Phe Ser Trp Leu Ser Ser Asp Pro Gly Gly Leu Glu Ser Asp Thr Leu  
           115                  120                  125  
 Gln Trp Val Glu Glu Pro Gln Arg Ser Cys Thr Ala Arg Arg Cys Ala  
           130                  135                  140  
 Val Leu Gln Ala Thr Gly Gly Val Glu Pro Ala Gly Trp Lys Glu Met  
           145                  150                  155                  160

Arg Cys His Leu Arg Ala Asn Gly Tyr Leu Cys Lys Tyr Gln Phe Glu  
 165 170 175  
 Val Leu Cys Pro Ala Pro Arg Pro Gly Ala Ala Ser Asn Leu Ser Tyr  
 180 185 190  
 Arg Ala Pro Phe Gln Leu His Ser Ala Ala Leu Asp Phe Ser Pro Pro  
 195 200 205  
 Gly Thr Glu Val Ser Ala Leu Cys Arg Gly Gln Leu Pro Ile Ser Val  
 210 215 220  
 Thr Cys Ile Ala Asp Glu Ile Gly Ala Arg Trp Asp Lys Leu Ser Gly  
 225 230 235 240  
 Asp Val Leu Cys Pro Cys Pro Gly Arg Tyr Leu Arg Ala Gly Lys Cys  
 245 250 255  
 Ala Glu Leu Pro Asn Cys Leu Asp Asp Leu Gly Gly Phe Ala Cys Glu  
 260 265 270  
 Cys Ala Thr Gly Phe Glu Leu Gly Lys Asp Gly Arg Ser Cys Val Thr  
 275 280 285  
 Ser Gly Glu Gly Gln Pro Thr Leu Gly Gly Thr Gly Val Pro Thr Arg  
 290 295 300  
 Arg Pro Pro Ala Thr Ala Thr Ser Pro Val Pro Gln Arg Thr Trp Pro  
 305 310 315 320  
 Ile Arg Val Asp Glu Lys Leu Gly Glu Thr Pro Leu Val Pro Glu Gln  
 325 330 335  
 Asp Asn Ser Val Thr Ser Ile Pro Glu Ile Pro Arg Trp Gly Ser Gln  
 340 345 350  
 Ser Thr Met Ser Thr Leu Gln Met Ser Leu Gln Ala Glu Ser Lys Ala  
 355 360 365  
 Thr Ile Thr Pro Ser Gly Ser Val Ile Ser Lys Phe Asn Ser Thr Thr  
 370 375 380  
 Ser Ser Ala Thr Pro Gln Ala Phe Asp Ser Ser Ser Ala Val Val Phe  
 385 390 395 400  
 Ile Phe Val Ser Thr Ala Val Val Val Leu Val Ile Leu Thr Met Thr  
 405 410 415  
 Val Leu Gly Leu Val Lys Leu Cys Phe His Glu Ser Pro Ser Ser Gln  
 420 425 430  
 Pro Arg Lys Glu Ser Met Gly Pro Pro Gly Leu Glu Ser Asp Pro Glu  
 435 440 445  
 Pro Ala Ala Leu Gly Ser Ser Ser Ala His Cys Thr Asn Asn Gly Val  
 450 455 460

Lys Val Gly Asp Cys Asp Leu Arg Asp Arg Ala Glu Gly Ala Leu Leu  
 465 470 475 480

Ala Glu Ser Pro Leu Gly Ser Ser Asp Ala  
 485 490

<210> 1302  
 <211> 105  
 <212> PRT  
 <213> Homo sapiens

<400> 1302  
 Met Thr His Arg Arg His Cys Gly Leu Ala Arg Trp Ile Leu Met Lys  
 1 5 10 15  
 Ile Phe Cys Trp Arg Val Ser Thr Val Thr Ser Thr Ala Gly Ala Leu  
 20 25 30  
 Thr Asn Pro His Ser Cys Tyr Thr Ser Val Leu Lys Val Gly Ala Thr  
 35 40 45  
 Gly Val Gly Gln Ser Leu Ser Val Trp Thr Met Pro Gly Leu Leu Leu  
 50 55 60  
 Glu Gln Phe Ser Thr Gly Val Glu Leu Leu Leu Ser Ser Ser Arg Phe  
 65 70 75 80  
 Ser Asn Ser Met Glu Tyr Lys Asn Arg Leu Ser Ser Val Glu Asp Arg  
 85 90 95  
 Ser Ser Val Val Thr Cys Leu Lys Ala  
 100 105

<210> 1303  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<400> 1303  
 Met Leu Glu Thr Leu Ser Gln Phe Ile Ser Ile Leu Phe Val Leu Leu  
 1 5 10 15  
 Trp Ile Ile Ser Asp Leu Ile Leu Cys Phe Leu Lys Cys Gly Asn Pro  
 20 25 30  
 Gly Thr Leu Asp Met Val Leu Pro Ile Trp Thr Asn Gln Tyr Thr His  
 35 40 45  
 Ser Ser Arg Ser Ile Leu Ser Phe Ile  
 50 55

<210> 1304  
 <211> 68  
 <212> PRT  
 <213> Homo sapiens

<400> 1304  
 Met Leu Met Leu Leu Thr Leu Leu Val Leu Gly Met Val Trp Val Ala  
           1                  5                  10                  15  
 Ser Ala Ile Val Asp Lys Asn Lys Ala Asn Arg Glu Ser Leu Tyr Asp  
                   20                  25                  30  
 Phe Trp Glu Tyr Tyr Leu Pro Tyr Leu Tyr Ser Cys Ile Ser Phe Leu  
                   35                  40                  45  
 Gly Val Leu Leu Leu Leu Ala Ala Gly Arg Pro Gly Gly Ala Ala Val  
           50                  55                  60  
 Leu Leu Ser Leu  
           65

<210> 1305  
 <211> 79  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (36)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1305  
 Met Arg Val Phe Ala Leu Leu Pro Pro Phe His Lys Ser Thr Val Leu  
           1                  5                  10                  15  
 Ser Phe Leu Leu Phe Phe Leu Ser Phe Phe Phe Phe Arg Gln Gly Leu  
                   20                  25                  30  
 Ala Val Ser Xaa Arg Leu Glu Cys Ser Gly Ala Ile Ile Ala His Cys  
                   35                  40                  45  
 Ser Leu Asp Leu Leu Asp Ser Ser Asn Pro Pro Ala Leu Thr Ser Gln  
           50                  55                  60  
 Leu Leu Arg Arg Pro Arg Gln Glu Asp His Leu Ser Pro Gly Gly  
           65                  70                  75

<210> 1306  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<400> 1306  
Met Phe Val Glu Arg Trp Leu Pro Cys Phe Leu Val Val Ala Val Va  
1 5 10 15  
Val Trp Val Phe Ala Cys Gly Pro Val Glu Asp Lys Glu Asp Ser Phe  
20 25 30  
Gly Trp Ser Ser Tyr Phe Leu Ala Ser Gly Leu Pro Pro Leu Leu Phe  
35 40 45  
Glu Ala Ser Gln Thr Arg Thr Val Arg Ala Gly Arg Leu Gly Val Phe  
50 55 60  
Val Cys  
65

<210> 1307  
<211> 67  
<212> PRT  
<213> Homo sapiens

<400> 1307  
Met Pro Leu Glu Gly Phe Cys Leu Val Leu Asp Ile Gly Phe Leu Leu  
1 5 10 15  
Val Met Leu Ile Ser Leu Ala Ser Glu Cys Phe Thr Thr Cys Leu Asp  
20 25 30  
Ser Phe Ser Thr Thr Glu Pro Gly Cys Lys Phe Tyr Lys Leu Leu His  
35 40 45  
Ser Val Ser Leu Leu Asn Ile Asn Phe Asn Val Lys Ser Leu Leu Cys  
50 55 60  
Ser His Ile  
65

<210> 1308  
<211> 40  
<212> PRT  
<213> Homo sapiens

<400> 1308  
Met Ser Val Tyr Val Asn Ile Met His Ile Val Ile Tyr Ile Tyr Leu  
1 5 10 15  
Cys Val Tyr Met Cys Val Ala Gln Ser His Thr His Thr Gln Ia Cys  
20 25 30  
Ile Gln Met Leu Pro Gly Leu Gln  
35 40



<210> 1309  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (21)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1309  
 Met Cys Leu Leu Ala His Leu Phe Cys His His Leu Leu Ile Leu Leu  
     1                    5                    10                    15

Pro Val Ile Glu Xaa Leu Leu Cys Thr Arg His Trp Ala Arg Gly Ile  
                     20                    25                    30

Leu

<210> 1310  
 <211> 249  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (147)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (150)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (196)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (222)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1310  
 Met Val Cys Val Phe Met Cys Ile Val Gly Val Cys Val Ala Cys Cys  
     1                    5                    10                    15

Ala Cys Val Tyr Cys Gly Cys Leu Leu Ser Arg Ala Val Glu Arg Thr  
                     20                    25                    30

Ser Gly Lys Gln Pro Gln His Gln Gly Gln Ala Arg Ser Ala Glu Cys  
                     35                    40                    45

Met Glu Ala Gly Gln Val Gly Ala Trp Asp Glu Gly Ser Thr Glu Met  
 50 55 60  
 Gln Gly Cys Gln Gly Pro Trp Asn Gln Glu Pro Met Ile Lys Ala Thr  
 65 70 75 80  
 Val His Thr Ala Leu Glu Ala Lys Asp Ile Phe Ile Ser Gln Gly Leu  
 85 90 95  
 Lys Ser Met Gly Gln Gly Trp Ala Pro Gly Gln Asp Trp Gly Tyr Arg  
 100 105 110  
 Val Asp Gln Ser Pro Ser Leu Pro Pro Gly Ala Tyr Pro His Pro Phe  
 115 120 125  
 Thr Ser Gln Val Ser Pro Pro Gln Pro Leu Gly Glu Leu Leu Leu Ile  
 130 135 140  
 Pro Gln Xaa Val Ala Xaa Val Thr Leu Leu Pro Glu Ala Ser Pro His  
 145 150 155 160  
 Pro Leu Lys His Pro Leu Pro Ala Ala His Leu Gln His Ser Gln Arg  
 165 170 175  
 Ala Pro Trp Pro Val Ser Thr Gly Leu Ser Leu Leu Gly Gly Ala Gly  
 180 185 190  
 Ala Glu Gln Xaa Pro Gly Leu Gly Val Pro Ala Pro Arg Ser Thr Pro  
 195 200 205  
 Ser Pro Thr Ala Ser Leu Phe Asn Leu Arg Gln Ala Val Xaa Leu Leu  
 210 215 220  
 Ser Leu Thr Phe Pro Leu Cys Lys Met Arg Glu Gly Thr Ala Pro Ser  
 225 230 235 240  
 Lys Pro Ser Phe Ser Leu Lys Pro Leu  
 245

<210> 1311  
 <211> 104  
 <212> PRT  
 <213> Homo sapiens

<400> 1311  
 Met Pro Leu Gln Leu Ser Gly Gln Tyr Trp Ile Ser Leu Leu Val Phe  
 1 5 10 15  
 Leu Ser Leu Gln Pro Phe Pro Gln Ala Ala Ile Pro Cys Ala Leu Thr  
 20 25 30  
 Asp Val Gly Gly Ser Cys Val Ile Cys His Ile Leu Leu Asn Cys Leu  
 35 40 45

Cys Ile Leu Phe Thr Leu Thr Ala Pro Ser Leu Ser His Val Leu Leu  
     50                            55                            60  
 Ile Lys Met Ser Leu Ser Val Cys Tyr Glu Pro Gly Ala Asp Leu Ser  
     65                            70                            75                            80  
 Asp Arg Ala Ala Thr Gly Asn Lys Lys Leu Thr Arg Ser Thr Cys Leu  
                     85                            90                            95  
 Leu Met His Ser Asn Lys Leu Cys  
                     100

<210> 1312  
 <211> 127  
 <212> PRT  
 <213> Homo sapiens

<400> 1312  
 Met Gln Gly Ser Asp Ala Gly His Gly Gly Thr His Ile Tyr Arg Ala  
     1                            5                            10                            15  
 Leu Val Gln Trp Pro Leu Ala Trp Val Phe Tyr Leu Ser His Ala Lys  
                     20                            25                            30  
 Thr His Trp Gly Glu Glu Leu Arg Phe Ser Phe Arg Arg Lys Asn Leu  
             35                            40                            45  
 Arg Leu Arg Glu Ala Met Arg His Glu Thr Cys Gln Val Thr Gln Leu  
     50                            55                            60  
 Val Ala Gly Lys Ala Asp Ser Asn Leu Cys Leu Arg Asp Ser Glu Thr  
     65                            70                            75                            80  
 Trp Phe Trp Pro Pro Leu Trp Ala Ala Cys Ser Ser Leu Gln Ala Thr  
                     85                            90                            95  
 Ala Cys Arg Leu Ser Ser Pro Ser Lys Gly Leu Gly Ala Ser Arg Glu  
                     100                            105                            110  
 Cys Pro Trp Leu Ala Ser Gly Arg Ala Ala Leu Val Ser Phe Leu  
             115                            120                            125

<210> 1313  
 <211> 113  
 <212> PRT  
 <213> Homo sapiens

<400> 1313  
 Met Gly Ser Trp Cys Ile Cys Thr Leu Leu Leu Leu Thr Asp Gly  
     1                            5                            10                            15  
 Gln Gln Gly Phe Tyr Pro Gln Pro Phe Gln Aa Ala Pro Gly Arg Gln  
             20                            25                            30

Gln Leu Trp Gly Gly Thr Asn Pro Trp Ala Val Leu Ile Pro Glu Ser  
                   35                                  40                                  45  
 Phe Leu Pro Tyr Thr Leu Thr Val Asn Tyr Ser Pro Ser Gln Asn Phe  
                   50                                  55                                  60  
 Glu Phe Tyr Leu Pro Lys Met Arg Leu Ala Tyr Ile Cys Met Ser His  
                   65                                  70                                  75                                  80  
 Ser His Cys Pro Tyr Leu Gly Arg Asp Ile Ile Ile Thr Leu Leu An  
                                   85                                  90                                  95  
 Tyr Cys Ser Ser Phe Leu Ala Glu Leu Leu Ala His Leu Val Tyr Ile  
                                   100                                  105                                  110  
 Ala

<210> 1314  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 1314  
 Met Trp Phe Arg Cys Phe Leu Leu Ile Phe Val Ser Ser Val Thr Leu  
                   1                                  5                                  10                                  15  
 Thr Gly Asp Phe Arg Asn Met Lys Lys Pro Ser Ser Leu Cys Leu Phe  
                                   20                                  25                                  30  
 Arg Gln Gly Leu Met Ser Ala Ser Glu Val Ser Gly Ser Gly Ser Gly  
                                   35                                  40                                  45  
 Glu Gly Asp  
                   50

<210> 1315  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 1315  
 Met Thr Lys Arg Arg Lys Pro Arg Tyr Arg Phe Ile Phe Ala Leu Tyr  
                   1                                  5                                  10                                  15  
 Ala Leu Arg Leu Val Phe Leu Phe Arg Ala Val Thr Asn Thr Asp Ala  
                                   20                                  25                                  30  
 Ser Arg Leu Arg Ala Lys Arg Gly Glu Cys Pro Tyr  
                                   35                                  40

<210> 1316  
 <211> 82  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (51)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1316  
 Met Leu Ile Ala Leu Phe Cys Ile Leu Phe Gln Ile Leu Phe Ser Ile  
   1                  5                  10                  15  
 Pro Thr Arg Ile Phe Tyr Ile Phe Leu Ile Asn Lys Arg Val His Ile  
           20                  25                  30  
 Phe Thr Thr Tyr Leu Met Ser Glu Gln Lys Asn His Asp Trp Val Arg  
           35                  40                  45  
 Arg Thr Xaa Lys Leu His Arg Val Trp Leu Ile Ser Gly Lys Met Leu  
           50                  55                  60  
 Leu Val Ala Asp Ile Lys Ala Leu Ile Arg Trp Leu Trp Gly Pro Asn  
   65                  70                  75                  80  
 Pro Glu

<210> 1317  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 1317  
 Met Val Cys Val Arg Cys Val Trp Tyr Val Trp His Val Phe Gly Val  
   1                  5                  10                  15  
 Tyr Gly Asn Ile Leu Trp Ile Arg Thr Cys Gly Leu Phe Lys Asp Leu  
           20                  25                  30  
 Ser Phe Cys Ala Leu Lys Ser Glu Met  
           35                  40

<210> 1318  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 1318  
 Met Ser Pro Phe Asn Cys Cys Pro Phe Asn Tyr Thr Leu Ile Tyr Ile  
   1                  5                  10                  15

Ile Leu Leu Met Leu Ile Tyr Val Tyr Ile Ser Ser Val His Ser Leu  
20 25 30

Val Asp Ser Asp Leu Leu Asn Gly  
35 40

<210> 1319  
<211> 36  
<212> PRT  
<213> Homo sapiens

<400> 1319  
Met Gly Cys Thr Ala Leu Leu Leu Leu Phe His Leu Cys Val Pro Cys  
1 5 10 15

Glu Pro Tyr Gly Thr His Glu Lys Glu Leu Val Pro Gly Leu Tyr Phe  
20 25 30

Leu Val Tyr Arg  
35

<210> 1320  
<211> 70  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (67)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 1320  
Met Val Ser Phe Val Gly Ile Cys Leu Leu Gly Ser Phe Phe Ser  
1 5 10 15

Pro Ser Leu Gln Gly Thr Ile Trp His His Pro Ala Lys Pro Asp Gly  
20 25 30

Ser Gly His Gly Leu Pro Ser Phe Ala Val Ile Met Gly Lys Gln Val  
35 40 45

Val Pro Thr Val Tyr Trp Arg Met Pro Tyr Pro Arg Arg Gly Gly Pro  
50 55 60

Gly Thr Xaa Phe Ala Leu  
65 70

<210> 1321  
<211> 46  
<212> PRT

<213> Homo sapiens

<400> 1321

Met Cys Ile Pro Glu Ala Leu Gly Lys AsnSer Leu Phe Leu Ser Ser  
1 5 10 15  
Thr Phe Leu Trp Leu Leu Ala Phe Phe Gly Leu Trp Ser His His Ser  
20 25 30  
Tyr Leu Glu Gly Gln His Leu Gln Ile Cys PhePhe Phe Thr  
35 40 45

<210> 1322

<211> 52

<212> PRT

<213> Homo sapiens

<400> 1322

Met Ile Phe Lys Leu Leu Ile Phe Arg Ile Phe Phe His Glu Leu Ala  
1 5 10 15  
Leu Ala Leu Cys Ile Ser Asn Leu Val Ser Leu Pro Trp Leu Ser Tyr  
20 25 30  
Phe Trp Cys Pro Glu Met Gln Asn Leu Phe Leu Leu Asp Thr His Ile  
35 40 45  
Trp Val Leu Met  
50

<210> 1323

<211> 74

<212> PRT

<213> Homo sapiens

<400> 1323

Met Thr Leu Leu Leu Phe Ile Phe Phe Val Asp Cys Phe Ser Thr Pro  
1 5 10 15  
Gly Ser Ser Val Phe Asp Thr Gln Glu Val Trp Val Val Val Tyr Ser  
20 25 30  
Val Asn Lys Leu Leu Ala Val Gln His Cys Gln Gly Ile Ala Pro Asn  
35 40 45  
Val Tyr Ala Leu Ala Val Lys Lys Ser ValCys Asn Val Ser Glu Trp  
50 55 60  
Ser Leu Val Ile Cys His Pro Met Pro Ile  
65 70

<210> 1324  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (27)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1324  
 Met Ser Val Phe Leu Leu Ile Thr Leu Ala Leu Ala Ile Leu Tyr Ile  
           1                  5                  10                  15  
 Ile Arg Ser Ile Val Phe Ser Leu Ala Leu Xaa Gln Asn Gly Ser Leu  
                   20                  25                  30  
 Gln Gly

<210> 1325  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 1325  
 Met Gln Pro Trp Ala Gly Leu Cys Pro Leu Leu Val Leu Trp Ile Ser  
           1                  5                  10                  15  
 Gly His Leu His Cys Ile Ser Ala Leu Leu Gln Glu Arg Gly Val Gly  
                   20                  25                  30  
 Val Ser Leu Ser Ser Arg Ser Asp Ala Cys Lys Ala Ala His Arg Ile  
           35                  40                  45  
 Gly Thr Ser Ser Ser  
           50

<210> 1326  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 1326  
 Met Pro Arg Trp Leu Ser Leu Leu Ala Leu Thr Ser Leu Thr Gly Ile  
           1                  5                  10                  15  
 Leu Ser Gly Thr Leu Gly Phe Ser Pro His Gly Trp Ser Ser Pro Arg  
                   20                  25                  30  
 Arg His Leu Ser Pro Arg Pro Glu Cys Pro Ala Ala Ser Gln Thr Thr  
           35                  40                  45



Cys Lys Ser Leu Gly Gln His  
 50 55

<210> 1327  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 1327  
 Met Thr Pro Ser Leu Leu Ser Glu Lys Leu Cys Ser Leu Phe Phe Val  
 1 5 10 15  
 Leu Leu Gly Ile Ala Ser Ala Ala Phe Val Ser Ala Leu Trp Ala Trp  
 20 25 30  
 Ser Ser His Thr Glu Arg Leu Thr Ala Glu Pro Ser Ser Ser Ile Thr  
 35 40 45  
 Cys Leu Ser Pro Pro Trp Phe Phe Phe Pro Phe  
 50 55

<210> 1328  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<400> 1328  
 Met Trp Pro Phe Leu His Leu Leu Asn Met Pro Phe Thr Leu Thr Gln  
 1 5 10 15  
 Val Val Ala Ser Pro Ser Ser Cys Ser Asn Trp Lys Pro Gln His Pro  
 20 25 30  
 Glu Met Pro Pro Pro Gln Ile His Cys Thr His Val Cys Leu Cys Met  
 35 40 45  
 Arg Val Cys Ala Arg Val  
 50

<210> 1329  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (38)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1329  
 Met Pro His Ile Phe Val Ser Gly Asn Phe Ser Leu Leu Ala Leu Phe

1                      5                      10                      15  
 Leu Leu Ser Ala Asn Phe Ile Val Glu Val Gln Ser Trp Leu Leu Leu  
                     20                      25                      30  
 Leu Leu Phe Phe Ile Xaa Leu Gly Arg Ser Tyr Asn Phe Tyr Leu Leu  
                     35                      40                      45  
 Cys Asp Ser Ile Ile Phe  
                     50

<210> 1330  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 1330  
 Met Gln Leu Val Leu Phe His Arg Leu Ile Met Pro Leu Phe Phe Ala  
   1                      5                      10                      15  
 Arg Thr Leu Val Asp  
                     20

<210> 1331  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 1331  
 Met Cys Leu Gly His Ala Phe Cys Leu Leu Leu Ser His Ser Cys Arg  
   1                      5                      10                      15  
 Met His Cys Thr Cys Tyr Leu Cys Leu Phe Thr Val Gln Val Leu Pro  
                     20                      25                      30  
 Gly Lys Tyr Asn Glu Gly Gly Glu Gly Gln Arg Asn  
                     35                      40

<210> 1332  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 1332  
 Met Phe Pro Gly Cys Ile Leu Leu Cys Asn Leu Cys Met Phe Phe Val  
   1                      5                      10                      15  
 Leu Ser Phe Ser Met Gly Ile Phe Ala Phe Tyr Ser Leu Ile Arg Ala  
                     20                      25                      30  
 Met His Val Ser Arg Leu Asp Phe Asn Phe Ala Thr Tyr Phe Val Ala

35

40

45

&lt;210&gt; 1333

&lt;211&gt; 46

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1333

Met Val Val Val Arg Trp Arg Gly Gln Gly Ser Phe Arg Val Cys Val  
 1 5 10 15

Cys Val Ser Val Arg Met Cys Val Arg Val Tyr Lys Glu Gln Leu Asn  
 20 25 30

Asn Leu Leu Leu Glu Trp Val Leu Leu Arg Ala Lys Tyr Qs  
 35 40 45

&lt;210&gt; 1334

&lt;211&gt; 71

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (58)

&lt;223&gt; Xaa equals any of the naturally occurring amino acids

&lt;400&gt; 1334

Met Lys Ala Ile Ala Arg Ala Qys Leu Leu Leu Ser Leu Leu Val Leu  
 1 5 10 15

Pro His Val Val Ser Glu His Leu Phe Trp His His Asn Pro Arg His  
 20 25 30

Pro Val Ile Trp Pro Phe Pro Pro Phe His Leu Ile Ser Cys Ser Val  
 35 40 45

Ser Ala Ser Thr Trp His Leu Gly Glu Xaa Leu Leu Leu Leu Val Pro  
 50 55 60

Ile Ala Pro Ser Val Trp Ser  
 65 70

&lt;210&gt; 1335

&lt;211&gt; 51

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<400> 1335

Met Arg His Val Ala Ile Val Thr Met Ile Val Val Leu Ser Pro Pro  
1 5 10 15  
Val Leu Ala Ser Ser Leu Lys Pro Pro Leu Phe Ile Asp Trp Tyr Phe  
20 25 30  
Met Phe Gly Lys Arg Cys Ser Arg Trp Asp Thr Leu Pro Ala Pro Asn  
35 40 45  
Asn Ser Tyr  
50

<210> 1336

<211> 36

<212> PRT

<213> Homo sapiens

<400> 1336

Met Ala Gly His Pro Thr Leu Ile Leu Leu Cys Lys Trp Ala Phe His  
1 5 10 15  
Leu Thr Gly Ala Ile Cys Glu Pro Tyr Leu Asn Gln Thr Leu Pro Thr  
20 25 30  
Gln Ala Cys Leu  
35

<210> 1337

<211> 180

<212> PRT

<213> Homo sapiens

<400> 1337

Met Tyr Ser Cys Leu Leu Leu Pro Asp Leu Leu Tyr Leu Thr Leu Ser  
1 5 10 15  
Pro Leu Val Val Ala Met Leu Leu Thr Pro His Phe Asn Val Ala Asn  
20 25 30  
Pro Gln Asn Leu Leu Ala Gly Leu Trp Leu Glu Asn Glu His Ser Phe  
35 40 45  
Thr Leu Met Ala Pro Glu Arg Ala Arg Thr His His Cys Gln Pro Glu  
50 55 60  
Glu Arg Lys Val Leu Phe Cys Leu Phe Pro Ile Val Pro Asn Ser Gln  
65 70 75 80  
Ala Gln Val Gln Pro Pro Gln Met Pro Pro Phe Cys Cys Ala Ala Ala  
85 90 95  
Lys Glu Lys Thr Gln Glu Glu Gln Leu Gln Glu Pro Leu Gly Ser Gln

100	105	110
Cys Pro Asp Thr Cys Pro Asn Ser Leu Cys Pro Ser His Thr Gln Leu		
115	120	125
Thr Lys Ala Asn Thr Leu Ser Leu Phe Phe Phe Phe Ser Phe Phe Leu		
130	135	140
Ser Arg Val Ser Leu Leu Ser Pro Arg LeuGlu Cys Asn Gly Arg Ile		
145	150	155
Leu Ala His Cys Asn Leu His Leu Pro Gly Ser Ser Asn Ser Pro Val		
165	170	175
Ser Ala Ser Arg		
180		

<210> 1338  
 <211> 78  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (40)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (60)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1338  
 Met Met Gly Asn Asp Leu Leu His Leu Val Phe Leu Gln Leu Ser Leu  
 1 5 10 15  
 Gly Val Ala Ser Gly Gly Trp Ile Leu Trp Pro Leu Arg Arg Leu Gly  
 20 25 30  
 Gly Ala His Thr Ser Lys Asp Xaa Asn Lys Asn Gly His Xaa Val His  
 35 40 45  
 Cys Leu Val Ile Thr Asn Glu Pro LeuVal Ser Xaa Lys Lys Ile Gly  
 50 55 60  
 Leu Ser Ser Pro His Thr Cys Pro Ser Thr Leu Gln Gln Phe  
 65 70 75

<210> 1339  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 1339  
 Met Tyr Tyr Leu Gly Lys Trp Asp Ile Trp Gln Pro Val Ser Leu Leu  
           1                  5                  10                  15  
 Tyr Ile Ile Leu Phe Ala Ala Cys Pro Ser Leu Leu Ile Ser Ile Pro  
           20                  25                  30  
 Ala Lys Ala Ser Gly Glu Gly Trp Arg Cys Gly Asp Ile Gln Leu Thr  
           35                  40                  45  
 Val Val Thr Asp  
           50

<210> 1340  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens

<400> 1340  
 Met Ala Leu Trp Val Thr Cys Ile Leu SerLeu Cys Thr Trp Phe Ser  
           1                  5                  10                  15  
 Cys Leu Tyr Gly Ala Asp Ser Leu Ala Asn Lys Cys Leu Ser Ala Gly  
           20                  25                  30  
 Ala Thr Arg Lys Ala Phe Pro Phe Cys Val LeuPhe Arg Asp Leu Glu  
           35                  40                  45  
 Val Gly Leu Gly Phe Glu Gly Phe Val Thr His Leu Ala Cys Lys Leu  
           50                  55                  60  
 Phe Cys Tyr Cys Glu Leu Ser Asp Ser Ala Leu Ser Leu Gly His Glu  
           65                  70                  75                  80

<210> 1341  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 1341  
 Met Ala Val Ser Leu Leu Phe Trp Met Leu Leu Gly Ala Val Pro Ile  
           1                  5                  10                  15  
 Ala Gln Gly His Pro Glu Ile Gln Leu Leu Glu Ser Glu Ser Cys Gly  
           20                  25                  30

His Ser Ala Glu Gly Pro Trp Arg Gly Gly Leu Arg Cys Pro Leu Gln  
 35 40 8

Pro Gly Leu  
 50

<210> 1342  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 1342  
 Met Arg Leu Leu Lys Asn Val Leu Thr Gln Met Leu Ile Ile Ser Phe  
 1 5 10 15

Ser Thr Cys Ser Cys Leu Phe Ser Leu Phe Cys Ala Val Ile Thr Glu  
 20 25 30

Cys Leu Lys Leu Gly Asn Leu Tyr  
 35 40

<210> 1343  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 1343  
 Met Arg Arg Met Arg Met Lys Ser Leu Ser Pro Arg Arg Ser Trp Trp  
 1 5 10 15

Thr Leu Trp Leu Gly Gln Gly Val Leu Gly Ala Ala Leu Lys Ala Asn  
 20 25 30

Thr Leu Trp Ile Ala Met Arg Arg Arg Met Met Met Met Gly Gly Pro  
 35 40 45

Ala Asn Met Thr Ser Trp Pro Gln Arg Met  
 50 55

<210> 1344  
 <211> 402  
 <212> PRT  
 <213> Homo sapiens

<400> 1344  
 Met Tyr Ser Gly Asn Arg Ser Gly Gly His Gly Tyr Trp Asp Gly Gly  
 1 5 10 15

Gly Ala Ala Gly Ala Glu Gly Pro Ala Pro Ala Gly Thr Leu Ser Pro  
 20 25 30

Ala Pro Leu Phe Ser Pro Gly Thr Tyr Glu Arg Leu Ala Leu Leu Leu  
 35 40 45  
 Gly Ser Ile Gly Leu Leu Gly Val Gly Asn Asn Leu Leu Val Leu Val  
 50 55 60  
 Leu Tyr Tyr Lys Phe Gln Arg Leu Arg Thr Pro Thr His Leu Leu Leu  
 65 70 75 80  
 Val Asn Ile Ser Leu Ser Asp Leu Leu Val Ser Leu Phe Gly Val Thr  
 85 90 95  
 Phe Thr Phe Val Ser Cys Leu Arg Asn Gly Trp Val Trp Asp Thr Val  
 100 105 110  
 Gly Cys Val Trp Asp Gly Phe Ser Gly Ser Leu Phe Gly Ile Val Ser  
 115 120 125  
 Ile Ala Thr Leu Thr Val Leu Ala Tyr Glu Arg Tyr Ile Arg Val Val  
 130 135 140  
 His Ala Arg Val Ile Asn Phe Ser Trp Ala Trp Arg Ala Ile Thr Tyr  
 145 150 155 160  
 Ile Trp Leu Tyr Ser Leu Ala Trp Ala Gly Ala Pro Leu Le Gly Trp  
 165 170 175  
 Asn Arg Tyr Ile Leu Asp Val His Gly Leu Gly Cys Thr Val Asp Trp  
 180 185 190  
 Lys Ser Lys Asp Ala Asn Asp Ser Ser Phe Val Leu Phe Leu Phe Leu  
 195 200 205  
 Gly Cys Leu Val Val Pro Leu Gly Val Ile Ala His Cys Tyr Gly His  
 210 215 220  
 Ile Leu Tyr Ser Ile Arg Met Leu Arg Cys Val Glu Asp Leu Gln Thr  
 225 230 235 240  
 Ile Gln Val Ile Lys Ile Leu Lys Tyr Glu Lys Lys Leu Ala Lys Met  
 245 250 255  
 Cys Phe Leu Met Ile Phe Thr Phe Leu Val Cys Trp Met Pro Tyr Ile  
 260 265 270  
 Val Ile Cys Phe Leu Val Val Asn Gly His Gly His Leu Val Thr Pro  
 275 280 285  
 Thr Ile Ser Ile Val Ser Tyr Leu Phe Ala Lys Ser Asn Thr Val Tyr  
 290 295 300  
 Asn Pro Val Ile Tyr Val Phe Met Ile Arg Lys Phe Arg Arg Ser Leu  
 305 310 315 320  
 Leu Gln Leu Leu Cys Leu Arg Leu Leu Arg Cys Gln Arg Pro Ala Lys  
 325 330 335



Asp Leu Pro Ala Ala Gly Ser Glu Met Gln Ile Arg Pro Ile Val Met  
                   340                  345                  350  
 Ser Gln Lys Asp Gly Asp Arg Pro Lys Lys Lys Val Thr Phe Asn Ser  
                   355                  360                  365  
 Ser Ser Ile Ile Phe Ile Ile Thr Ser Asp Glu Ser Leu Ser Val Asp  
                   370                  375                  380  
 Asp Ser Asp Lys Thr Asn Gly Ser Lys Val Asp Val Ile Gln Val Arg  
                   385                  390                  395                  400  
 Pro Leu

<210> 1345  
 <211> 218  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (168)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (174)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (198)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (213)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1345  
 Met Arg Ala Leu Leu Ala Leu Cys Leu Leu Leu Gly Trp Leu Arg Trp  
           1                  5                  10                  15

Gly Pro Ala Gly Ala Gln Gln Ser Gly Glu Tyr Cys His Gly Trp Val  
                   20                  25                  30

Asp Val Gln Gly Asn Tyr His Glu Gly Phe Gln Cys Pro Glu Asp Phe  
           35                  40                  45

Asp Thr Leu Asp Ala Thr Ile Cys Cys Gly Ser Cys Ala Leu Arg Tyr  
           50                  55                  60

Cys Cys Ala Ala Ala Asp Ala Arg Leu Glu Gln Gly Gly Cys Thr Asn



<213> Homo sapiens

<400> 1347

Met Pro Val Pro Leu Leu Ala Ser Ala Ala Trp Cys His Leu Cys Ala  
1 5 10 15  
Gly Ala Leu Pro Ala Trp Leu Trp Leu Pro TrpArg Ala Ala Ala Ala  
20 25 30  
Gln Trp His Val Cys Ala Ser His Cys Leu Pro Leu His Pro Ala Phe  
35 40 45  
Ser Ala Leu Gly Pro His Pro Asp Pro Gly Arg Ala Gly ProGly Ala  
50 55 60  
Ala Pro Arg Asp Cys Ala His Pro Glu Leu His Pro Leu Cys Leu Pro  
65 70 75 80  
Arg Trp Ser Leu Gln Leu Leu Pro Arg  
85

<210> 1348

<211> 104

<212> PRT

<213> Homo sapiens

<400> 1348

Met Leu Phe Cys Ile Leu Leu Tyr Thr Leu Gly Ser Ala Arg Cys His  
1 5 10 15  
His Leu Ser Phe Phe Leu Trp Gly Trp Ser Asn Pro Pro Glu LysThr  
20 25 30  
Pro Leu Ala Ser Trp Arg Gly Val Lys Ala Arg Leu Pro Gly Pro Gly  
35 40 45  
Cys Gln Leu Leu Gly Ala Ala Gly Ala Glu Ala Gly Ser Cys Gln Ala  
50 55 60  
Phe Ser Gln Gln Asp Ala Leu Ser Thr His Leu Gly Phe Arg Ile Pro  
65 70 75 80  
Leu Pro His Leu Gln Met Gly Gln Met Ser Pro Lys Pro Ala Ala Pro  
85 90 95  
Phe Cys Phe Thr Leu Ser Thr Glu  
100

<210> 1349

<211> 40

<212> PRT

<213> Homo sapiens



<212> PRT  
 <213> Homo sapiens  
 .  
 <400> 1352  
 Met Phe Ile Val Ala Leu Leu Ile Leu His Trp Ala Leu Gly Gly Thr  
     1                    5                    10                    15  
 Val Met Ser Lys  
                     20

<210> 1353  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1353  
 Ile Tyr Ser Ser Gly Tyr Phe Gln Ile Tyr Asn Met Leu Leu Leu Thr  
     1                    5                    10                    15  
 Ile Leu Ile Leu Leu Cys Asn Arg Thr Pro Glu Leu Ile Pro Gly Phe  
                     20                    25                    30  
 Tyr Ile Arg  
                     35

<210> 1354  
 <211> 106  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1354  
 Met Val His Ile Ala Ile Lys Thr Pro Leu His Pro Ala Thr Pro Ile  
     1                    5                    10                    15  
 Pro His Arg Ala Phe Val Pro Ala Leu Ala Phe Leu Pro Phe Ser Phe  
                     20                    25                    30  
 Ser Ser Pro Leu Ser Ser Leu Lys Ala Val Ser Cys Phe Gln Cys Asp  
                     35                    40                    45  
 Asn Thr Met Met Ser Phe Gly Arg Ile Cys Gln Asp Arg Leu Ile Leu  
                     50                    55                    60  
 Ser Pro Gly Cys Arg Met Cys Met Arg Gln Cys Cys Gln Ala Ile Leu  
                     65                    70                    75                    80  
 Phe Glu Ala Leu Cys Cys His Asn Tyr His Gln Val His Thr Val Gly  
                     85                    90                    95  
 Lys Arg Leu Thr Pro Asp Phe Arg Lys Cys  
                     100                    105

<210> 1355  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 1355  
 Met Val Cys Phe Tyr Ala Leu Leu Leu Cys Phe Leu Ser Ser Val Glu  
           1                  5                  10                  15  
 Ile Gly Pro Leu Ser Trp Leu Leu Cys Leu Ser His Ile Lys Cys His  
                   20                  25                  30  
 Phe Thr Ala Leu Pro Phe Glu Ala  
           35                  40

<210> 1356  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 1356  
 Met His Met Pro Ala Ala Pro Val Thr Val Leu Lys Leu Leu Pro Phe  
           1                  5                  10                  15  
 Pro Cys Val Cys Gly Leu Gly Trp Val Pro Ile Gly Cys Val Ser Ile  
                   20                  25                  30  
 Pro Ser His Leu Lys Gly Asn Leu Cys Cys Ser  
           35                  40

<210> 1357  
 <211> 159  
 <212> PRT  
 <213> Homo sapiens

<400> 1357  
 Gly Thr Arg Leu Pro Thr Asn Val Arg Gly Ile Met Val Trp Phe Ser  
           1                  5                  10                  15  
 Cys Trp Leu Leu Thr Gln Ser Ile Thr Val Ile Leu Gly Ala Arg Gly  
                   20                  25                  30  
 Arg Tyr Gly Arg Leu Cys Val Leu Gln Gly Arg His Cys Gly Leu Val  
           35                  40                  45  
 Asp Lys Ser Gly Ser Pro Asn Pro Phe Ser Ala Asp Val Leu Ala Val  
           50                  55                  60  
 His Ser Gly Gln Val Ser His Ser Pro Glu Pro Gln Arg Leu Tyr Gln  
           65                  70                  75                  80  
 Tyr Asp Glu Asn Lys Tyr Ser Thr Cys Leu Pro His Gly Val Val Ser

				85						90					95
Ala	Val	Asn	Glu	Ile	Met	Tyr	Met	Lys	His	Leu	Val	Tyr	Leu	Ala	Pro
			100					105					110		
Asn	Lys	Ser	Ser	Thr	Thr	Ser	Ser	Leu	Ile	Thr	Asn	Lys	Met	Glu	Leu
		115					120					125			
Glu	Gly	Cys	Ile	Ser	Leu	Asn	Lys	Ile	Leu	Arg	Gln	Ile	Leu	Gly	Val
	130					135					140				
Pro	Val	Phe	Ile	Leu	Gln	Leu	Glu	Ser	Pro	Pro	Ser	Leu	Phe	Gly	
145					150				155						

<210> 1358  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 1358  
 Met Leu Gln Gln Lys Thr Gln Phe Tyr Ser Ile Leu Trp Leu Cys Ser  
 1 5 10 15  
 Ile Pro Trp Cys Val Cys Thr Thr Phe Ser Leu Tyr Ser Pro Pro Leu  
 20 25 30  
 Met Gly Thr Arg Val Asp Phe Met Ser Leu Asn Met Cys Cys Asn Glu  
 35 40 45  
 Lys Lys His Ile Phe Tyr Lys Met Ile Glu Val  
 50 55

<210> 1359  
 <211> 165  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (56)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1359  
 Met Lys Ile Ala Val Leu Phe Cys Phe Phe Leu Leu Ile Ile Phe Gln  
 1 5 10 15  
 Thr Asp Phe Gly Lys Asn Glu Glu Ile Pro Arg Lys Gln Arg Arg Lys  
 20 25 30  
 Ile Tyr His Arg Arg Leu Arg Lys Ser Ser Thr Ser His Lys His Arg  
 35 40 45  
 Ser Asn Arg Gln Leu Gly Ile Xaa Gln Thr Thr Val Phe Thr Pro Val





Lys Gly Leu Tyr Ala Asp Tyr Leu Phe Asn Ala Ile Ala Gly Asn Trp  
 145 150 155 160  
 Glu Arg Lys Arg Pro Val Trp Val Met Leu Met Val Asn Ser Leu Thr  
 165 170 175  
 Glu Val Asp Ile Lys Ser Arg Gly Val Pro Val Leu Asp Leu Phe Leu  
 180 185 190  
 Ala Gln Glu Ala Glu Arg Leu Arg Lys Gln Thr Gly Ala Val Glu Lys  
 195 200 205  
 Val Glu Glu Gln Cys His Pro Leu Asn Gly Leu Asn Phe Ser Gln Val  
 210 215 220  
 Ile Phe Ala Leu Asn Gln Thr Leu Leu Gln Gln Glu Ser Leu Arg Ala  
 225 230 235 240  
 Gly Ser Leu Gln Ile Pro Tyr Thr Thr Glu Asp Leu Ile Lys His Tyr  
 245 250 255  
 Asn Cys Gly Asp Leu Ser Ser Val Ile Leu Ser His Asp Ser Ser Gln  
 260 265 270  
 Val Pro Asn Phe Ile Asn Ala Thr Leu Pro Pro Gln Glu Arg Ile Thr  
 275 280 285  
 Ala Gln Glu Ile Asp Ser Tyr Leu Arg Arg Glu Leu Ile Tyr Lys Arg  
 290 295 300  
 Asn Glu Arg Ile Gly Lys Arg Val Lys Ala Leu Leu Glu Glu Phe Pro  
 305 310 315 320  
 Asp Lys Gly Phe Phe Phe Ala Phe Gly Ala Ala Ser Gln  
 325 330

<210> 1361  
 <211> 226  
 <212> PRT  
 <213> Homo sapiens

<400> 1361  
 Met Glu Thr Val Val Ile Val Ala Ile Gly Val Leu Ala Thr Ile Phe  
 1 5 10 15  
 Leu Ala Ser Phe Ala Ala Leu Val Leu Val Cys Arg Gln Arg Tyr Cys  
 20 25 30  
 Arg Pro Arg Asp Leu Leu Gln Arg Tyr Asp Ser Lys Pro Ile Val Asp  
 35 40 45  
 Leu Ile Gly Ala Met Glu Thr Gln Ser Glu Pro Ser Glu Leu Glu Leu  
 50 55 60

Asp Asp Val Val Ile Thr Asn Pro His Ile Glu Ala Ile Leu Glu Asn  
 65 70 75 80  
 Glu Asp Trp Ile Glu Asp Ala Ser Gly Leu Met Ser His Cys Ile Ala  
 85 90 95  
 Ile Leu Lys Ile Cys His Thr Leu Thr Glu Lys Leu Val Ala Met Thr  
 100 105 110  
 Met Gly Ser Gly Ala Lys Met Lys Thr Ser Ala Ser Val Ser Asp Ile  
 115 120 125  
 Ile Val Val Ala Lys Arg Ile Ser Pro Arg Val Asp Asp Val Val Lys  
 130 135 140  
 Ser Met Tyr Pro Pro Leu Asp Pro Lys Leu Leu Asp Ala Arg Thr Thr  
 145 150 155 160  
 Ala Leu Leu Leu Ser Val Ser His Leu Val Leu Val Thr Arg Asn Ala  
 165 170 175  
 Cys His Leu Thr Gly Gly Leu Asp Trp Ile Asp Gln Ser Leu Ser Ala  
 180 185 190  
 Ala Glu Glu His Leu Glu Val Leu Arg Glu Ala Ala Leu Ala Ser Glu  
 195 200 205  
 Pro Asp Lys Gly Leu Pro Gly Pro Glu Gly Phe Leu Gln Glu Gln Ser  
 210 215 220  
 Ala Ile  
 225

<210> 1362  
 <211> 117  
 <212> PRT  
 <213> Homo sapiens

<400> 1362  
 Met Cys Thr Leu Phe Val Leu Ala Val Leu Leu Pro Val Leu Leu  
 1 5 10 15  
 Leu Tyr Arg His Arg Asn Ser Met Lys Val Phe Leu Lys Gln Gly Glu  
 20 25 30  
 Cys Ala Ser Val His Pro Lys Thr Cys Pro Val Val Leu Pro Pro Glu  
 35 40 45  
 Thr Arg Pro Leu Asn Gly Leu Gly Pro Pro Ser Thr Pro Leu Asp His  
 50 55 60  
 Arg Gly Tyr Gln Ser Leu Ser Asp Ser Pro Pro Gly Ala Arg Val Phe  
 65 70 75 80  
 Thr Glu Ser Glu Lys Arg Pro Leu Ser Ile Gln Asp Ser Phe Val Glu

	85		90		95
Val Ser Pro	Val Cys Pro Arg Pro Arg Val Arg Leu Gly Ser Glu Ile				
	100		105		110
Arg Asp Ser Val Val					
	115				
<210> 1363					
<211> 404					
<212> PRT					
<213> Homo sapiens					
<400> 1363					
Met Arg Leu Gln Asp Val Tyr Met Leu Asn Val Lys Gly Leu Ala Arg					
1	5		10		15
Gly Val Phe Gln Arg Val Thr Gly Ser Ala Ile Thr Asp Leu Tyr Ser					
	20		25		30
Pro Lys Arg Leu Phe Ser Leu Thr Gly Asp Asp Cys Phe Gln Val Gly					
	35		40		45
Lys Val Ala Tyr Asp Met Gly Asp Tyr Tyr His Ala Ile Pro Trp Leu					
	50		55		60
Glu Glu Ala Val Ser Leu Phe Arg Gly Ser Tyr Gly Glu Trp Lys Thr					
	65		70		75
Glu Asp Glu Ala Ser Leu Glu Asp Ala Leu Asp His Leu Ala Phe Ala					
	85		90		95
Tyr Phe Arg Ala Gly Asn Val Ser Cys Ala Leu Ser Leu Ser Arg Glu					
	100		105		110
Phe Leu Leu Tyr Ser Pro Asp Asn Lys Arg Met Ala Arg Asn Val Leu					
	115		120		125
Lys Tyr Glu Arg Leu Leu Ala Glu Ser Pro Asn His Val Val Ala Glu					
	130		135		140
Ala Val Ile Gln Arg Pro Asn Ile Pro His Leu Gln Thr Arg Asp Thr					
	145		150		155
Tyr Glu Gly Leu Cys Gln Thr Leu Gly Ser Gln Pro Thr Leu Tyr Gln					
	165		170		175
Ile Pro Ser Leu Tyr Cys Ser Tyr Glu Thr Asn Ser Asn Ala Tyr Leu					
	180		185		190
Leu Leu Gln Pro Ile Arg Lys Glu Val Ile His Leu Glu Pro Tyr Ile					
	195		200		205
Ala Leu Tyr His Asp Phe Val Ser Asp Ser Glu Ala Gln Lys Ile Arg					
	210		215		220

Glu Leu Ala Glu Pro Trp Leu Gln Arg Ser Val Val Ala Ser Gly Glu  
 225 230 235 240  
 Lys Gln Leu Gln Val Glu Tyr Arg Ile Ser Lys Ser Ala Trp Leu Lys  
 245 250 255  
 Asp Thr Val Asp Leu Lys Leu Val Thr Leu Asn His Arg Ile Ala Ala  
 260 265 270  
 Leu Thr Gly Leu Asp Val Arg Pro Pro Tyr Ala Glu Tyr Leu Gln Val  
 275 280 285  
 Val Asn Tyr Gly Ile Gly Gly His Tyr Glu Pro His Phe Asp His Ala  
 290 295 300  
 Thr Ser Pro Ser Ser Pro Leu Tyr Arg Met Lys Ser Gly Asn Arg Val  
 305 310 315 320  
 Ala Thr Phe Met Ile Tyr Leu Ser Ser Val Glu Ala Gly Gly Ala Thr  
 325 330 335  
 Ala Phe Ile Tyr Ala Asn Leu Ser Val Pro Val Val Arg Asn Ala Ala  
 340 345 350  
 Leu Phe Trp Trp Asn Leu His Arg Ser Gly Glu Gly Asp Ser Asp Thr  
 355 360 365  
 Leu His Ala Gly Cys Pro Val Leu Val Gly Asp Lys Trp Val Ala Asn  
 370 375 380  
 Lys Trp Ile His Glu Tyr Gly Gln Glu Phe Arg Arg Pro Cys Ser Ser  
 385 390 395 400  
 Ser Pro Glu Asp

<210> 1364  
 <211> 180  
 <212> PRT  
 <213> Homo sapiens

<400> 1364  
 Met Val Val Leu Phe Arg Trp Val Pro Val Thr Asp Ala Tyr Trp Gln  
 1 5 10 15  
 Ile Leu Phe Ser Val Leu Lys Val Thr Arg Asn Leu Lys Glu Leu Asp  
 20 25 30  
 Leu Ser Gly Asn Ser Leu Ser His Ser Ala Val Lys Ser Leu Cys Lys  
 35 40 45  
 Thr Leu Arg Arg Pro Arg Cys Leu Leu Glu Thr Leu Arg Leu Ala Gly  
 50 55 60

Cys Gly Leu Thr Ala Glu Asp Cys Lys Asp Leu Ala Phe Gly Leu Arg  
 65 70 75 80  
 Ala Asn Gln Thr Leu Thr Glu Leu Asp Leu Ser Phe Asn Val Leu Thr  
 85 90 95  
 Asp Ala Gly Ala Lys His Leu Cys Gln Arg Leu Arg Gln Pro Ser Cys  
 100 105 110  
 Lys Leu Gln Arg Leu Gln Leu Val Ser Cys Gly Leu Thr Ser Asp Cys  
 115 120 125  
 Cys Gln Asp Leu Ala Ser Val Leu Ser Ala Ser Pro Ser Leu Lys Glu  
 130 135 140  
 Leu Asp Leu Gln Gln Asn Asn Leu Asp Asp Val Gly Val Arg Leu Leu  
 145 150 155 160  
 Cys Glu Gly Leu Ser Ile Leu Pro Ala Asn Ser Tyr Ala Trp Gly Trp  
 165 170 175  
 Thr Arg Gln Leu  
 180

<210> 1365  
 <211> 484  
 <212> PRT  
 <213> Homo sapiens

<400> 1365  
 Met Pro Arg His Leu Ser Gly Leu Leu Leu Leu Trp Pro Leu Leu  
 1 5 10 15  
 Leu Leu Leu Pro Pro Thr Pro Ala Ala Pro Gly Pro Leu Ala Arg Pro  
 20 25 30  
 Gly Leu Arg Arg Leu Gly Thr Arg Gly Pro Gly Gly Ser Pro Gly Arg  
 35 40 45  
 Arg Pro Val Ser Ala Val Pro Thr Arg Ala Pro Tyr Ser Gly Ala Gly  
 50 55 60  
 Gln Pro Gly Gly Ala Arg Gly Ala Gly Val Cys Arg Ser Arg Pro Leu  
 65 70 75 80  
 Asp Leu Val Phe Ile Ile Asp Ser Ser Arg Ser Val Arg Pro Leu Glu  
 85 90 95  
 Phe Thr Lys Val Lys Thr Phe Val Ser Gln Ile Ile Asp Thr Leu Asp  
 100 105 110  
 Ile Gly Ala Ala Asp Thr Arg Val Ala Val Val Asn Tyr Ala Ser Thr  
 115 120 125  
 Val Lys Ile Glu Phe His Leu Gln Thr His Ser Asp Lys Gln Ser Leu

130		135		140
Lys Gln Ala Val Ala Arg Ile Thr Pro Leu Ser Thr Gly Thr Met Ser				
145		150		155
Gly Leu Ala Ile Gln Thr Ala Met Asp Glu Ala Phe Thr Val Glu Ala				
	165		170	175
Gly Ala Arg Gly Pro Thr Ser Asn Ile Pro Lys Val Ala Ile Ile Val				
	180		185	190
Thr Asp Gly Arg Pro Gln Asp Gln Val Asn Glu Val Ala Ala Arg Ala				
	195		200	205
Arg Ala Ser Gly Ile Glu Leu Tyr Ala Val Gly Val Asp Arg Ala Asp				
	210		215	220
Met Glu Ser Leu Lys Met Met Ala Ser Glu Pro Leu Asp Glu His Val				
	225		230	235
Phe Tyr Val Glu Thr Tyr Gly Val Ile Glu Lys Leu Ser Ser Arg Phe				
	245		250	255
Gln Glu Thr Phe Cys Ala Leu Asp Pro Cys Val Leu Gly Thr His Arg				
	260		265	270
Cys Gln His Val Cys Val Ser Asp Gly Glu Gly Lys His His Cys Glu				
	275		280	285
Cys Ser Gln Gly Tyr Ser Leu Asn Ala Asp Gln Lys Thr Cys Ser Ala				
	290		295	300
Ile Asp Lys Cys Ala Leu Asn Thr His Gly Cys Glu His Ile Cys Val				
	305		310	315
Asn Asp Arg Thr Gly Ser Tyr His Cys Glu Cys Tyr Glu Gly Tyr Thr				
	325		330	335
Leu Asn Gln Asp Arg Lys Thr Cys Ser Ala Gln Asp Gln Cys Ala Phe				
	340		345	350
Gly Thr His Gly Cys Gln His Ile Cys Val Asn Asp Arg Asp Gly Ser				
	355		360	365
His His Cys Glu Cys Tyr Glu Gly Tyr Thr Leu Asn Ala Asp Asn Lys				
	370		375	380
Thr Cys Ser Val Arg Ser Glu Cys Ala Gly Gly Ser His Gly Cys Gln				
	385		390	395
His Leu Cys Val Asp Asp Gly Pro Ala Ala Tyr His Cys Asp Cys Phe				
	405		410	415
Pro Gly Tyr Thr Leu Thr Glu Asp Arg Arg Thr Cys Ala Ala Ile Glu				
	420		425	430
Glu Ala Arg Arg Leu Val Ser Thr Glu Asp Ala Cys Gly Cys Glu Ala				

435                      440                      445  
 Thr Leu Ala Phe Gln Glu Arg Ala Ser Ser Tyr Leu Gln Arg Leu Asn  
 450                      455                      460  
 Ala Lys Leu Asp Asp Ile Leu Gly Lys Leu Gln Ala Asp Ala Tyr Gly  
 465                      470                      475                      480  
 Gln Ile His Arg

<210> 1366  
 <211> 410  
 <212> PRT  
 <213> Homo sapiens

<400> 1366  
 Met Gln Pro Pro Ser Leu Leu Leu Leu Val Leu Gly Leu Leu Ala Ala  
 1                      5                      10                      15  
 Pro Ala Ala Ala Leu Val Arg Ile Pro Leu His Lys Phe Thr Ser Val  
 20                      25                      30  
 Arg Arg Thr Met Ser Glu Leu Gly Gly Pro Val Glu Asp Leu Ile Ala  
 35                      40                      45  
 Arg Gly Pro Ile Ser Lys Tyr Ala Gln Gly Val Pro Ser Val Ala Gly  
 50                      55                      60  
 Gly Pro Val Pro Glu Val Leu Arg Asn Tyr Met Asp Ala Gln Tyr Tyr  
 65                      70                      75                      80  
 Gly Glu Ile Gly Ile Gly Thr Pro Pro Gln Cys Phe Thr Val Val Phe  
 85                      90                      95  
 Asp Thr Gly Ser Ser Asn Leu Trp Val Pro Ser Ile His Cys Lys Leu  
 100                      105                      110  
 Leu Asp Ile Ala Cys Trp Ile His His Lys Tyr Asn Ser Gly Lys Ser  
 115                      120                      125  
 Ser Thr Tyr Val Lys Asn Gly Thr Ser Phe Asp Ile His Tyr Gly Ser  
 130                      135                      140  
 Gly Ser Leu Ser Gly Tyr Leu Ser Gln Asp Thr Val Ser Val Pro Cys  
 145                      150                      155                      160  
 Lys Ser Gly Leu Ser Ser Leu Ala Gly Val Lys Val Glu Arg Gln Thr  
 165                      170                      175  
 Phe Gly Glu Ala Thr Lys Gln Pro Gly Ile Thr Phe Ile Ala Ala Lys  
 180                      185                      190  
 Phe Asp Gly Ile Leu Gly Met Ala Tyr Pro Arg Ile Ser Val Asn Asn  
 195                      200                      205

Val Leu Pro Val Phe Asp Asn Leu Met Gln Gln Lys Leu Val Glu Lys  
 210 215 220  
 Asn Ile Phe Ser Phe Tyr Leu Asn Arg Asp Pro Gly Ala Gln Pro Gly  
 225 230 235 24  
 Gly Glu Leu Met Leu Gly Gly Thr Asp Ser Lys Tyr Tyr Lys Gly Pro  
 245 250 255  
 Leu Ser Tyr Leu Asn Val Thr Arg Lys Ala Tyr Trp Gln Val His Met  
 260 265 270  
 Glu Gln Val Asp Val Gly Ser Ser Leu Thr Leu Cys Lys Gly Gly Cys  
 275 280 285  
 Glu Ala Ile Val Asp Thr Gly Thr Ser Leu Ile Val Gly Pro Val Asp  
 290 295 300  
 Glu Val Arg Glu Leu Gln Lys Ala Ile Gly Ala Val Pro Leu Ile Gln  
 305 310 315 320  
 Gly Glu Tyr Met Ile Pro Cys Glu Lys Val Ser Thr Leu Pro Glu Val  
 325 330 335  
 Thr Leu Thr Leu Gly Gly Lys Pro Tyr Lys Leu Ser Ser Glu Asp Tyr  
 340 345 350  
 Thr Leu Lys Val Ser Gln Gly Gly Lys Ser Ile Cys Leu Ser Gly Phe  
 355 360 365  
 Met Gly Met Asp Ile Pro Pro Pro Gly Gly Pro Leu Trp Ile Leu Gly  
 370 375 380  
 Asp Val Phe Ile Gly Arg Tyr Tyr Thr Val Phe Asp Arg Asp Gln Asn  
 385 390 395 400  
 Arg Val Gly Leu Ala Glu Ala Thr Arg Leu  
 405 410

<210> 1367

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1367

Met Leu Val Leu Phe Lys Phe Leu Pro Leu Thr Ser Ser Gly Arg Phe  
 1 5 10 15

Ser Ser Val Thr Leu Tyr His Arg Val His His Gln Xaa Val Phe Ser



	20		25		30										
Gln	Glu	Ala	Lys	Ser	Phe	Ser	Pro	Ala	Ser	Thr	Leu	Asn	Leu	Tyr	Ile
		35					40					45			
Cys	Ser	Ser	Gln	Phe	Gln	Ser	Leu	Gln	Lys	Leu	Tyr	Cys	Gly	Val	Ile
	50					55					60				
Pro	Val	Leu	Arg	Tyr	Ala	Ser	Ile	Glu							
	65					70									

<210> 1368  
 <211> 627  
 <212> PRT  
 <213> Homo sapiens

<400> 1368															
Met	Glu	Ala	Arg	Val	Val	His	Ala	Leu	Gln	Lys	Arg	Gln	Val	Ser	Leu
1				5					10					15	
Leu	Cys	Val	Phe	Leu	Gly	Val	Ser	Trp	Ala	Gly	Ala	Glu	Pro	Leu	Arg
			20					25					30		
Tyr	Phe	Val	Ala	Glu	Glu	Thr	Glu	Arg	Gly	Thr	Phe	Leu	Ala	Asn	Leu
		35					40					45			
Ala	Ile	Asp	Leu	Gly	Leu	Gly	Val	Glu	Glu	Leu	Ser	Ala	Arg	Gly	Cys
	50					55					60				
Arg	Ile	Val	Ser	Asp	Glu	Thr	Ile	Gly	Phe	Leu	Leu	Leu	Asn	Pro	Leu
	65				70					75					80
Thr	Gly	Asp	Leu	Leu	Leu	Asn	Glu	Lys	Leu	Asp	Arg	Glu	Glu	Leu	Cys
			85						90					95	
Gly	Pro	Thr	Glu	Pro	Cys	Val	Leu	Pro	Phe	Gln	Leu	Leu	Leu	Glu	Lys
			100					105					110		
Pro	Phe	Gln	Ile	Phe	Arg	Ala	Glu	Leu	Trp	Val	Arg	Asp	Ile	Asn	Asp
		115					120					125			
His	Ser	Pro	Val	Phe	Leu	Asp	Arg	Glu	Ile	Thr	Leu	Asn	Ile	Leu	Glu
	130					135					140				
Ser	Thr	Thr	Pro	Gly	Ala	Thr	Phe	Leu	Leu	Glu	Ser	Ala	His	Asp	Ser
	145				150					155				160	
Asp	Val	Gly	Ile	Asn	Asn	Leu	Arg	Asn	Tyr	Thr	Ile	Ser	Ser	Asn	Val
			165						170					175	
Tyr	Phe	His	Ile	Asn	Val	His	Asp	Asn	Gly	Glu	Gly	Asn	Val	Tyr	Ser
		180					185					190			
Glu	Leu	Val	Leu	Asp	Lys	Val	Leu	Asp	Arg	Glu	Glu	Val	Pro	Glu	Leu
	195						200					205			

Arg Leu Thr Leu Thr Gly Leu Asp Gly Gly Ser Pro Pro Arg Ser Gly  
 210 215 220  
 Thr Thr Leu Ile Arg Ile Leu Val Leu Asp Ile Asn Asp Asn Val Pro  
 225 230 235 240  
 Glu Phe Val Glu Ser Leu Tyr Lys Val Gln Val Pro Glu Asn Ser Pro  
 245 250 255  
 Val Gly Ser Leu Val Val Thr Val Ser Ala Arg Asp Leu Asp Thr Gly  
 260 265 270  
 Ser Asn Gly Glu Ile Val Tyr Ala Phe Phe Tyr Ala Thr Glu Arg Thr  
 275 280 285  
 Leu Lys Thr Phe Arg Ile Asn Ser Thr Ser Gly Asn Leu His Leu Lys  
 290 295 300  
 Ala Glu Leu Asn Tyr Glu Ala Ile Gln Thr Tyr Thr Leu Thr Ile Gln  
 305 310 315 320  
 Ala Lys Asp Gly Gly Gly Leu Ser Gly Lys Cys Thr Val Val Val His  
 325 330 335  
 Val Thr Asp Ile Asn Asp Asn Pro Pro Glu Leu Leu Met Ser Ser Leu  
 340 345 350  
 Thr Ser Pro Ile Pro Glu Asn Ser Pro Glu Thr Val Val Ala Val Phe  
 355 360 365  
 Arg Ile Arg Asp Arg Asp Ser Gly Asn Asn Ala Lys Met Val Cys Ser  
 370 375 380  
 Ile Gln Asp His Leu Pro Phe Val Leu Lys Pro Ser Val Glu Asn Phe  
 385 390 395 400  
 Tyr Thr Leu Val Thr Glu Arg Ala Leu Asp Arg Glu Glu Arg Thr Glu  
 405 410 415  
 Tyr Asn Ile Thr Ile Thr Val Thr Asp Leu Gly Thr Pro Arg Leu Lys  
 420 425 430  
 Thr Gln His Asn Leu Thr Val Thr Val Ser Asp Val Asn Asp Asn Ala  
 435 440 445  
 Pro Thr Phe Ser Gln Thr Thr Tyr Thr Leu Arg Val Arg Glu Asn Asn  
 450 455 460  
 Ser Pro Ala Leu His Ile Gly Ser Val Ser Ala Thr Asp Arg Asp Ser  
 465 470 475 480  
 Gly Ala Asn Ala Gln Val Thr Tyr Ser Leu Leu Pro Pro His Asp Pro  
 485 490 495  
 Gln Leu Pro Leu Gly Ser Leu Val Ser Ile Asn Ala Asp Asn Gly Gln  
 500 505 510

Leu Phe Ala Leu Arg Ser Leu Asp Phe Glu Ala Leu Gln Ala Phe Glu  
           515                                  520                                  525  
 Phe Arg Val Gly Ala Ala Asp Arg Gly Ser Pro Ala Leu Ser Ser Gln  
           530                                  535                                  540  
 Ala Leu Val Arg Val Leu Val Ala Asp Ala Asn Asp Asn Ala Pro Phe  
 545                                  550                                  555                                  560  
 Val Leu Tyr Pro Leu Gln Asn Gly Ser Ala Pro Cys Thr Glu Leu Val  
                                   565                                  570                                  575  
 Pro Arg Ala Ala Glu Ala Gly Tyr Leu Val Ala Lys Val Val Ala Val  
                                   580                                  585                                  590  
 Asp Gly Asp Ser Gly Gln Asn Ala Trp Leu Ser Tyr Gln Leu Leu Lys  
                                   595                                  600                                  605  
 Ala Thr Glu Pro Gly Leu Phe Gly Val Trp Ala His Asn Gly Glu Val  
           610                                  615                                  620  
 Arg Thr Ala  
 625

<210> 1369  
 <211> 82  
 <212> PRT  
 <213> Homo sapiens

<400> 1369  
 Met Leu Leu Leu Gln Ser Leu Phe Phe Pro Met Ser Trp Gly Ser Gly  
   1                                  5                                  10                                  15  
 Gly Gly Gly Lys Gly Arg Asp Asp Leu Pro Arg Glu Lys Pro Thr Thr  
                                   20                                  25                                  30  
 Cys Pro Val Phe Asp Arg Leu Phe Asp Ile Phe Ala Lys Ile Pro Leu  
           35                                  40                                  45  
 Val Glu Ser Gln Ala Ser Cys Ala Arg Ile Gly Ile Ala Ala Ser His  
           50                                  55                                  60  
 Trp Arg Leu Asp Cys Ser Val Asp Gly Met Gln Ala Asp Cys Leu Ser  
   65                                  70                                  75                                  80  
 Leu Ile

<210> 1370  
 <211> 363  
 <212> PRT  
 <213> Homo sapiens

<400> 1370  
 Met Lys Thr Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn  
 1 5 10 15  
 Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu GlnGlu  
 20 25 30  
 Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala  
 35 40 45  
 Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu  
 50 55 60  
 Glu Arg Lys Ser Leu Leu Thr Asn Leu Glu Glu Ala Lys Lys Lys Lys  
 65 70 75 80  
 Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala  
 85 90 95  
 Ser Gln Gly Val Cys Asn Asp Thr Met Met Ala Leu Trp Glu Glu Cys  
 100 105 110  
 Lys Pro Cys Leu Lys Gln Thr Cys Met Lys Phe Tyr Ala Arg Val Cys  
 115 120 125  
 Arg Ser Ser Thr Gly Leu Val Gly His Gln Val Glu Glu Phe Leu Asn  
 130 135 140  
 Gln Ser Ser Pro Phe Tyr Phe Trp Ile Asn Gly Asp Arg Ile Asp Ser  
 145 150 155 160  
 Leu Leu Glu Asn Asp Arg Gln Gln Thr His Ala Leu Asp Val Met Gln  
 165 170 175  
 Asp Ser Phe Asp Arg Ala Ser Ser Ile Met Asp Glu Leu Phe Gln Asp  
 180 185 190  
 Arg Phe Phe Thr Arg Glu Ala Gln Asp Pro Phe His Phe Ser Pro Phe  
 195 200 205  
 Ser Ser Phe Gln Arg Arg Pro Phe Phe Phe Asn Ile Lys His Arg Phe  
 210 215 220  
 Ala Arg Asn Ile Met Pro Phe Pro Gly Tyr Gln Pro Leu Asn Phe His  
 225 230 235 240  
 Asp Met Phe Gln Pro Phe Phe Asp Met Ile His Gln Ala Gln Gln Ala  
 245 250 255  
 Met Asp Val Asn Leu His Arg Leu Pro His Phe Pro Met Glu Phe Thr  
 260 265 270  
 Glu Glu Asp Asn Gln Asp Gly Ala Val Cys Lys Glu Ile Arg His Asn  
 275 280 285  
 Ser Thr Gly Cys Leu Lys Met Lys Asp Gln Cys Glu Lys Cys Arg Glu

290                      295                      300  
 Ile Leu Ser Val Asp Cys Ser Ser Asn Asn Pro Ala Gln Val Gln Leu  
 305                      310                      315                      320  
 Arg Gln Glu Leu Asn Asn Ser Leu Gln Ile Ala Glu Lys Phe Thr Lys  
                     325                      330                      335  
 Leu Val Arg Arg Ala Ala Ala Val Leu Pro Gly Glu Asp Val Gln His  
                     340                      345                      350  
 Val Leu Pro Ala Glu Ala Ala Gly Arg Ala Val  
                     355                      360

<210> 1371  
 <211> 129  
 <212> PRT  
 <213> Homo sapiens

<400> 1371  
 Met Ala Pro Ser Gly Pro Leu Leu Leu Val Leu Leu Val Pro Leu Ala  
   1                    5                    10                    15  
 Ala Ala Arg Ala Gly Pro Tyr Phe Arg Pro Gly Arg Gly Cys Arg Leu  
                     20                    25                    30  
 Pro Leu Arg Gly Asp Gln Leu Ser Gly Leu Gly Arg Arg Thr Tyr Pro  
                     35                    40                    45  
 Arg Pro His Glu Tyr Leu Ser Pro Ser Asp Leu Pro Lys Ser Trp Asp  
                     50                    55                    60  
 Trp Arg Asn Val Asn Gly Val Asn Tyr Ala Ser Ala Thr Arg Asn Gln  
   65                    70                    75                    80  
 His Ile Pro Gln Tyr Cys Gly Ser Cys Trp Ala His Gly Ser Thr Ser  
                     85                    90                    95  
 Ala Met Ala Gly Pro Asp Gln His Gln Glu Lys Gly Gly Val Ala Leu  
                     100                    105                    110  
 His Pro Ala Val Arg Ala Ala Arg Pro Arg Leu Arg Gln Arg Gly Leu  
                     115                    120                    125  
 Leu

<210> 1372  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 1372

Met Arg Glu Lys Thr Gly Ala Leu Pro Arg Cys Leu Gly Leu Leu Gly  
 1 5 10 15  
 Val Gly Leu Leu Trp Arg Trp Cys Gly Arg Arg Ala Arg Ala Gly Val  
 20 25 30  
 Gly Lys Ala Trp Ser Ala Thr Arg Ser Pro Ser Asp Ser Cys Phe Pro  
 35 40 45  
 Gly Val Ala Arg Val Gly Ile  
 50 55

<210> 1373  
 <211> 522  
 <212> PRT  
 <213> Homo sapiens

<400> 1373  
 Met Ala Ala Ala Met Pro Leu Ala Leu Leu Val Leu Leu Leu Leu Gly  
 1 5 10 15  
 Pro Gly Gly Trp Cys Leu Ala Glu Pro Pro Arg Asp Ser Leu Arg Glu  
 20 25 30  
 Glu Leu Val Ile Thr Pro Leu Pro Ser Gly Asp Val Ala Ala Thr Phe  
 35 40 45  
 Gln Phe Arg Thr Arg Trp Asp Ser Glu Leu Gln Arg Glu Gly Val Ser  
 50 55 60  
 His Tyr Arg Leu Phe Pro Lys Ala Leu Gly Gln Leu Ile Ser Lys Tyr  
 65 70 75 80  
 Ser Leu Arg Glu Leu His Leu Ser Phe Thr Gln Gly Phe Trp Arg Thr  
 85 90 95  
 Arg Tyr Trp Gly Pro Pro Phe Leu Gln Ala Pro Ser Asp Thr Asp His  
 100 105 110  
 Tyr Phe Leu Arg Tyr Ala Val Leu Pro Arg Glu Val Val Cys Thr Glu  
 115 120 125  
 Asn Leu Thr Pro Trp Lys Lys Leu Leu Pro Cys Ser Ser Lys Ala Gly  
 130 135 140  
 Leu Ser Val Leu Leu Lys Ala Asp Arg Leu Phe His Thr Ser Tyr His  
 145 150 155 160  
 Ser Gln Ala Val His Ile Arg Pro Val Cys Arg Asn Ala Arg Cys Thr  
 165 170 175  
 Ser Ile Ser Trp Glu Leu Arg Gln Thr Leu Ser Val Val Phe Asp Ala  
 180 185 190  
 Phe Ile Thr Gly Gln Gly Lys Lys Asp Trp Ser Leu Phe Arg Met Phe

195					200					205					
Ser	Arg	Thr	Leu	Thr	Glu	Pro	Cys	Pro	Leu	Ala	Ser	Glu	Ser	Arg	Val
	210						215					220			
Tyr	Val	Asp	Ile	Thr	Thr	Tyr	Asn	Gln	Asp	Asn	Glu	Thr	Leu	Glu	Val
	225					230				235					240
His	Pro	Pro	Pro	Thr	Thr	Thr	Tyr	Gln	Asp	Val	Ile	Leu	Gly	Thr	Arg
				245					250					255	
Lys	Thr	Tyr	Ala	Ile	Tyr	Asp	Leu	Leu	Asp	Thr	Ala	Met	Ile	Asn	Asn
			260					265					270		
Ser	Arg	Asn	Leu	Asn	Ile	Gln	Leu	Lys	Trp	Lys	Arg	Pro	Pro	Glu	Asn
		275					280					285			
Glu	Ala	Pro	Pro	Val	Pro	Phe	Leu	His	Ala	Gln	Arg	Tyr	Val	Ser	Gly
	290					295					300				
Tyr	Gly	Leu	Gln	Lys	Gly	Glu	Leu	Ser	Thr	Leu	Leu	Tyr	Asn	Thr	His
	305				310					315					320
Pro	Tyr	Arg	Ala	Phe	Pro	Val	Leu	Leu	Leu	Asp	Thr	Val	Pro	Trp	Tyr
				325					330					335	
Leu	Arg	Leu	Tyr	Val	His	Thr	Leu	Thr	Ile	Thr	Ser	Lys	Gly	Lys	Glu
			340					345					350		
Asn	Lys	Pro	Ser	Tyr	Ile	His	Tyr	Gln	Pro	Ala	Gln	Asp	Arg	Leu	Gln
		355					360					365			
Pro	His	Leu	Leu	Glu	Met	Leu	Ile	Gln	Leu	Pro	Ala	Asn	Ser	Val	Thr
	370					375					380				
Lys	Val	Ser	Ile	Gln	Phe	Glu	Arg	Ala	Leu	Leu	Lys	Trp	Thr	Glu	Tyr
	385				390					395					400
Thr	Pro	Asp	Pro	Asn	His	Gly	Phe	Tyr	Val	Ser	Pro	Ser	Val	Leu	Ser
				405					410					415	
Ala	Leu	Val	Pro	Ser	Met	Val	Ala	Ala	Lys	Pro	Val	Asp	Trp	Glu	Glu
			420					425					430		
Ser	Pro	Leu	Phe	Asn	Ser	Leu	Phe	Pro	Val	Ser	Asp	Gly	Ser	Asn	Tyr
		435					440					445			
Phe	Val	Arg	Leu	Tyr	Thr	Glu	Pro	Leu	Leu	Val	Asn	Leu	Pro	Thr	Pro
	450					455					460				
Asp	Phe	Ser	Met	Pro	Tyr	Asn	Val	Ile	Cys	Leu	Thr	Cys	Thr	Val	Val
	465				470					475					480
Ala	Val	Cys	Tyr	Gly	Ser	Phe	Tyr	Asn	Leu	Leu	Thr	Arg	Thr	Phe	His
				485					490					495	
Ile	Glu	Glu	Pro	Arg	Thr	Gly	Gly	Leu	Ala	Lys	Arg	Leu	Ala	Asn	Leu





100 105 110  
 Ser Ile Arg Gln Met Ala Tyr Val Ser Gly Leu Ser Phe Gly Ile Ile  
 115 120 125  
 Ser Gly Val Phe Ser Val Ile Asn Ile Leu Ala Asp Ala Leu Gly Pro  
 130 135 140  
 Gly Val Val Gly Ile His Gly Asp Ser Pro Tyr Tyr Phe Leu Thr Ser  
 145 150 155 160  
 Ala Phe Leu Thr Ala Ala Ile Ile Leu Leu His Thr Phe Trp Gly Val  
 165 170 175  
 Val Phe Phe Asp Ala Cys Glu Arg Arg Arg Tyr Trp Ala Leu Gly Leu  
 180 185 190  
 Val Val Gly Ser His Leu Leu Thr Ser Gly Leu Thr Phe Leu Asn Pro  
 195 200 205  
 Trp Tyr Glu Ala Ser Leu Leu Pro Ser Met Gln Ser Leu Xaa Xaa Trp  
 210 215 220  
 Gly Ser Gly Pro Ser Ser Gln Leu Glu Gly Pro Xaa Lys Tyr Ser Ala  
 225 230 235 240  
 Gln Xaa Leu Xaa Lys Asp  
 245

<210> 1375  
 <211> 453  
 <212> PRT  
 <213> Homo sapiens

<400> 1375  
 Met Arg Met Ala Ser Ile Met Val Trp Val Met Ile Ile Met Val Ile  
 1 5 10 15  
 Leu Val Leu Gly Tyr Gly Ile Phe His Cys Tyr Met Glu Tyr Ser Arg  
 20 25 30  
 Leu Arg Gly Glu Ala Gly Ser Asp Val Ser Leu Val Asp Leu Gly Phe  
 35 40 45  
 Gln Thr Asp Phe Arg Val Tyr Leu His Leu Arg Gln Thr Trp Leu Ala  
 50 55 60  
 Phe Met Ile Ile Leu Ser Ile Leu Glu Val Ile Ile Ile Leu Leu Leu  
 65 70 75 80  
 Ile Phe Leu Arg Lys Arg Ile Leu Ile Ala Ile Ala Leu Ile Lys Glu  
 85 90 95  
 Ala Ser Arg Ala Val Gly Tyr Val Met Cys Ser Leu Leu Tyr Pro Leu  
 100 105 110

Val Thr Phe Phe Leu Leu Cys Leu Cys Ile Ala Tyr Trp Ala Ser Thr  
115 120 125  
Ala Val Phe Leu Ser Thr Ser Asn Glu Ala Val Tyr Lys Ile Phe Asp  
130 135 140  
Asp Ser Pro Cys Pro Phe Thr Ala Lys Thr Cys Asn Pro Glu Thr Phe  
145 150 155 160  
Pro Ser Ser Asn Glu Ser Arg Gln Cys Pro Asn Ala Arg Cys Gln Phe  
165 170 175  
Ala Phe Tyr Gly Gly Glu Ser Gly Tyr His Arg Ala Leu Leu Gly Leu  
180 185 190  
Gln Ile Phe Asn Ala Phe Met Phe Phe Trp Leu Ala Asn Phe Val Leu  
195 200 205  
Ala Leu Gly Gln Val Thr Leu Ala Gly Ala Phe Ala Ser Tyr Tyr Trp  
210 215 220  
Ala Leu Arg Lys Pro Asp Asp Leu Pro Ala Phe Pro Leu Phe Ser Ala  
225 230 235 240  
Phe Gly Arg Ala Leu Arg Tyr His Thr Gly Ser Leu Ala Phe Gly Ala  
245 250 255  
Leu Ile Leu Ala Ile Val Gln Ile Ile Arg Val Ile Leu Glu Tyr Leu  
260 265 270  
Asp Gln Arg Leu Lys Ala Ala Glu Asn Lys Phe Ala Lys Cys Leu Met  
275 280 285  
Thr Cys Leu Lys Cys Cys Phe Trp Cys Leu Glu Lys Phe Ile Lys Phe  
290 295 300  
Leu Asn Arg Asn Ala Tyr Ile Met Ile Ala Ile Tyr Gly Thr Asn Phe  
305 310 315 320  
Cys Thr Ser Ala Arg Asn Ala Phe Phe Leu Leu Met Arg Asn Ile Ile  
325 330 335  
Arg Val Ala Val Leu Asp Lys Val Thr Asp Phe Leu Phe Leu Leu Gly  
340 345 350  
Lys Leu Leu Ile Val Gly Ser Val Gly Ile Leu Ala Phe Phe Phe Phe  
355 360 365  
Thr His Arg Ile Arg Ile Val Gln Asp Thr Ala Pro Pro Leu Asn Tyr  
370 375 380  
Tyr Trp Val Pro Ile Leu Thr Val Ile Val Gly Ser Tyr Leu Ile Ala  
385 390 395 400  
His Gly Phe Phe Ser Val Tyr Gly Met Cys Val Asp Thr Leu Phe Leu  
405 410 415

Cys Phe Leu Glu Asp Leu Glu Arg Asn Asp Gly Ser Ala Glu Arg Pro  
420 425 430  
Tyr Phe Met Ser Ser Thr Leu Lys Lys Leu Leu Asn Lys Thr Asn Lys  
435 440 445  
Lys Ala Ala Glu Ser  
450

<210> 1376  
<211> 48  
<212> PRT  
<213> Homo sapiens

<400> 1376  
Met Tyr Val Phe Phe Phe Leu Phe Ser Leu Val Leu His Leu Asn Cys  
1 5 10 15  
Pro Gln Ser Ala Pro His Gln Pro Cys Val Thr Pro Ser Thr His Lys  
20 25 30  
Thr Glu Gln Lys Thr Pro Ser Leu Ser Trp Ser Pro Leu Gly Met Gly  
35 40 45

<210> 1377  
<211> 128  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (106)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 1377  
Met Gly Ala Ala Gly Arg Gln Asp Phe Leu Phe Lys Ala Met Leu Thr  
1 5 10 15  
Ile Ser Trp Leu Thr Leu Thr Cys Phe Pro Gly Ala Thr Ser Thr Val  
20 25 30  
Ala Ala Gly Cys Pro Asp Gln Ser Pro Glu Leu Gln Pro Trp Asn Pro  
35 40 45  
Gly His Asp Gln Asp His His Val His Ile Gly Gln Gly Lys Thr Leu  
50 55 60  
Leu Leu Thr Ser Ser Ala Thr Val Tyr Ser Ile His Ile Ser Glu Gly  
65 70 75 80

Gly Lys Leu Val Ile Lys Asp His Asp Glu Pro Ile Val Leu Arg Thr  
85 90 95  
Arg His Ile Leu Ile Asp Asn Gly Gly Xaa Leu His Ala Gly Glu Cys  
100 105 110  
Pro Leu Pro Phe Pro Gly Gln Phe His His His Phe Val Trp Lys Gly  
115 120 125

<210> 1378  
<211> 199  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (118)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (120)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 1378  
Met Thr Ser Cys Gly Gln Gln Ser Leu Asn Val Leu Ala Val Leu Phe  
1 5 10 15  
Ser Leu Leu Phe Ser Ala Val Leu Ser Ala His Phe Arg Val Cys Glu  
20 25 30  
Pro Tyr Thr Asp His Lys Gly Arg Tyr His Phe Gly Phe His Cys Pro  
35 40 45  
Arg Leu Ser Asp Asn Lys Thr Phe Ile Leu Cys Cys His His Asn Asn  
50 55 60  
Thr Val Phe Lys Tyr Cys Cys Asn Glu Thr Glu Phe Gln Ala Val Met  
65 70 75 80  
Gln Ala Asn Leu Thr Ala Ser Ser Glu Gly Tyr Met His Asn Asn Tyr  
85 90 95  
Thr Ala Leu Leu Gly Val Trp Ile Tyr Gly Phe Phe Val Leu Met Leu  
100 105 110  
Leu Val Leu Asp Leu Xaa Tyr Xaa Ser Ala Met Asn Tyr Asp Ile Cys  
115 120 125  
Lys Val Tyr Leu Ala Arg Trp Gly Ile Gln Gly Arg Trp Met Lys Gln  
130 135 140

Asp Pro Arg Arg Trp Gly Asn Pro Ala Arg Ala Pro ArgPro Gly Gln  
 145 150 155 160  
 Arg Ala Pro Gln Pro Gln Pro Pro Pro Gly Pro Leu Pro Gln Ala Pro  
 165 170 175  
 Gln Ala Val His Thr Leu Arg Gly Asp Ala His SerPro Pro Leu Met  
 180 185 190  
 Thr Phe Gln Ser Ser Ser Ala  
 195

<210> 1379  
 <211> 184  
 <212> PRT  
 <213> Homo sapiens

<400> 1379  
 Met Ser Arg Thr Ala Tyr Thr Val Gly Ala Leu Leu Leu Leu Gln  
 1 5 10 15  
 Thr Leu Leu Pro Ala Ala Glu Gly Lys Lys Lys Gly Ser Gln Gly Ala  
 20 25 30  
 Ile Pro Pro Pro Asp Lys Ala Gln His Asn Asp Ser Glu Gln Thr Gln  
 35 40 45  
 Ser Pro Gln Gln Pro Gly Ser Arg Asn Arg Gly Arg Gly Gln Gly Arg  
 50 55 60  
 Gly Thr Ala Met Pro Gly Glu Glu Val Leu Glu Ser Ser Gln Glu Ala  
 65 70 75 80  
 Leu His Val Thr Glu Arg Lys Tyr Leu Lys Arg Asp Trp Cys Lys Thr  
 85 90 95  
 Gln Pro Leu Lys Gln Thr Ile His Glu Glu Gly Cys Asn Ser Arg Thr  
 100 105 110  
 Ile Ile Asn Arg Phe Cys Tyr Gly Gln Cys Asn Ser Phe Tyr Ile Pro  
 115 120 125  
 Arg His Ile Arg Lys Glu Glu Gly Ser Phe Gln Ser Cys Ser Phe Cys  
 130 135 140  
 Lys Pro Lys Lys Phe Thr Thr Met Met Val Thr Leu Asn Cys Pro Glu  
 145 150 155 160  
 Leu Gln Pro Pro Thr Lys Lys Lys Arg Val Thr Arg Val Lys Gln Cys  
 165 170 175  
 Arg Cys Ile Ser Ile Asp Leu Asp  
 180

<210> 1380  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 1380  
 Met Arg Pro Val Leu Arg Arg Thr Phe Leu Leu Thr Leu Phe Ser Val  
 1 5 10 15  
 Ile Ala Leu Thr Lys Ile Lys His Asp Phe Phe Ile Met Cys Ser His  
 20 25 30  
 Met Gln Cys Ile Pro Arg Val Phe Leu Lys His Glu Phe Asn Asn Ile  
 35 40 45

<210> 1381  
 <211> 494  
 <212> PRT  
 <213> Homo sapiens

<400> 1381  
 Met Arg Pro Pro Gly Phe Arg Asn Phe Leu Leu Leu Ala Ser Ser Leu  
 1 5 10 15  
 Leu Phe Ala Gly Leu Ser Ala Val Pro GlnSer Phe Ser Pro Ser Leu  
 20 25 30  
 Arg Ser Trp Pro Gly Ala Ala Cys Arg Leu Ser Arg Ala Glu Ser Glu  
 35 40 45  
 Arg Arg Cys Arg Ala Pro Gly Gln Pro Pro Gly Ala AlaLeu Cys His  
 50 55 60  
 Gly Arg Gly Arg Cys Asp Cys Gly Val Cys Ile Cys His Val Thr Glu  
 65 70 75 80  
 Pro Gly Met Phe Phe Gly Pro Leu Cys Glu Cys His Glu Trp ValCys  
 85 90 95  
 Glu Thr Tyr Asp Gly Ser Thr Cys Ala Gly His Gly Lys Cys Asp Cys  
 100 105 110  
 Gly Lys Cys Lys Cys Asp Gln Gly Trp Tyr Gly Asp Ala Cys Gln Tyr  
 115 120 125  
 Pro Thr Asn Cys Asp Leu Thr Lys Lys Lys Ser Asn Gln Met Cys Lys  
 130 135 140  
 Asn Ser Gln Asp Ile Ile Cys Ser Asn Ala Gly Thr Cys His Cys Gly  
 145 150 155 160

Arg Cys Lys Cys Asp Asn Ser Asp Gly Ser Gly Leu Val Tyr Gly Lys  
 165 170 175  
 Phe Cys Glu Cys Asp Asp Arg Glu Cys Ile Asp Asp Glu Thr Glu Glu  
 180 185 190  
 Ile Cys Gly Gly His Gly Lys Cys Tyr Cys Gly Asn Cys Tyr Cys Lys  
 195 200 205  
 Ala Gly Trp His Gly Asp Lys Cys Glu Phe Gln Cys Asp Ile Thr Pro  
 210 215 220  
 Trp Glu Ser Lys Arg Arg Cys Thr Ser Pro Asp Gly Lys Ile Cys Ser  
 225 230 235 240  
 Asn Arg Gly Thr Cys Val Cys Gly Glu Cys Thr Cys His Asp Val Asp  
 245 250 255  
 Pro Thr Gly Asp Trp Gly Asp Ile His Gly Asp Thr Cys Glu Cys Asp  
 260 265 270  
 Glu Arg Asp Cys Arg Ala Val Tyr Asp Arg Tyr Ser Asp Asp Phe Cys  
 275 280 285  
 Ser Gly His Gly Gln Cys Asn Cys Gly Arg Cys Asp Cys Lys Ala Gly  
 290 295 300  
 Trp Tyr Gly Lys Lys Cys Glu His Pro Gln Ser Cys Thr Leu Ser Ala  
 305 310 315 320  
 Glu Glu Ser Ile Arg Lys Cys Gln Gly Ser Ser Asp Leu Pro Cys Ser  
 325 330 335  
 Gly Arg Gly Lys Cys Glu Cys Gly Lys Cys Thr Cys Tyr Pro Pro Gly  
 340 345 350  
 Asp Arg Arg Val Tyr Gly Lys Thr Cys Glu Cys Asp Asp Arg Arg Cys  
 355 360 365  
 Glu Asp Leu Asp Gly Val Val Cys Gly Gly His Gly Thr Cys Ser Cys  
 370 375 380  
 Gly Arg Cys Val Cys Glu Arg Gly Trp Phe Gly Lys Leu Cys Gln His  
 385 390 395 400  
 Pro Arg Lys Cys Asn Met Thr Glu Glu Gln Ser Lys Asn Leu Cys Glu  
 405 410 415  
 Ser Ala Asp Gly Ile Leu Cys Ser Gly Lys Gly Ser Cys His Cys Gly  
 420 425 430  
 Lys Cys Ile Cys Ser Ala Glu Glu Trp Tyr Ile Ser Gly Glu Phe Cys  
 435 440 445  
 Asp Cys Asp Asp Arg Asp Cys Asp Lys His Asp Gly Leu Ile Cys Thr  
 450 455 460

Gly Asn Gly Ile Cys Ser Cys Gly Asn Cys Glu Cys Trp Asp Gly Trp  
 465 470 475 480

Asn Gly Asn Ala Cys Glu Ile TrpLeu Gly Ser Glu Tyr Pro  
 485 490

<210> 1382  
 <211> 211  
 <212> PRT  
 <213> Homo sapiens

<400> 1382  
 Met Arg Leu Phe Leu Trp Asn Ala Val Leu Thr Leu Phe Val Thr Ser  
 1 5 10 15  
 Leu Ile Gly Ala Leu Ile Pro Glu Pro Glu Val Lys Ile Glu Val Leu  
 20 25 30  
 Gln Lys Pro Phe Ile Cys His Arg Lys Thr Lys Gly Gly Asp Leu Met  
 35 40 45  
 Leu Val His Tyr Glu Gly Tyr Leu Glu Lys Asp Gly Ser Leu Phe His  
 50 55 60  
 Ser Thr His Lys His Asn Asn Gly Gln Pro Ile Trp Phe Thr Leu Gly  
 65 70 75 80  
 Ile Leu Glu Ala Leu Lys Gly Trp Asp Gln Gly Leu Lys Gly Met Cys  
 85 90 95  
 Val Gly Glu Lys Arg Lys Leu Ile Ile Pro Pro Ala Leu Gly Tyr Gly  
 100 105 110  
 Lys Glu Gly Lys Gly Lys Ile Pro Pro Glu Ser Thr Leu Ile Phe Asn  
 115 120 125  
 Ile Asp Leu Leu Glu Ile Arg Asn Gly Pro Arg Ser His Glu Ser Phe  
 130 135 140  
 Gln Glu Met Asp Leu Asn Asp AspTrp Lys Leu Ser Lys Asp Glu Val  
 145 150 155 160  
 Lys Ala Tyr Leu Lys Lys Glu Phe Glu Lys His Gly Ala Val Val Asn  
 165 170 175  
 Glu Ser His His Asp Ala LeuVal Glu Asp Ile Phe Asp Lys Glu Asp  
 180 185 190  
 Glu Asp Lys Asp Gly Phe Ile Ser Ala Arg Glu Phe Thr Tyr Lys His  
 195 200 205  
 Asp Glu Leu  
 210



<210> 1383  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 1383  
 Met Val Ala Met Val Phe Leu Lys Ile Ser Val Leu Pro Leu Met Cys  
           1                  5                  10                  15  
 Arg Gly Gln Thr Lys His Lys Val Leu Arg Asp His Ala Tyr Pro Arg  
                   20                  25                  30  
 Val Ser Gln Lys Arg Gly His Ile  
           35                  40

<210> 1384  
 <211> 102  
 <212> PRT  
 <213> Homo sapiens

<400> 1384  
 Met Trp Ser Ser Ile Arg Leu Leu Ser Pro Val Leu Ser Leu Ile Leu  
           1                  5                  10                  15  
 Leu Leu Ile Ala Leu Glu Leu Val Asn Ile His Ala Val Cys Gly Lys  
                   20                  25                  30  
 Asn Ala His Glu Tyr Gln Gln Tyr Leu Lys Phe Val Lys Ser Ile Leu  
           35                  40                  45  
 Gln Tyr Thr Glu Asn Leu Val Ala Tyr Thr Ser Tyr Glu Lys Asn Lys  
           50                  55                  60  
 Trp Asn Glu Thr Ile Asn Leu Thr His Thr Ala Leu Leu Lys Met Trp  
           65                  70                  75                  80  
 Thr Phe Ser Glu Lys Lys Gln Met Leu Ile His Leu Ala Lys Lys Ser  
                   85                  90                  95  
 Thr Ser Lys Val Leu Leu  
           100

<210> 1385  
 <211> 624  
 <212> PRT  
 <213> Homo sapiens

<400> 1385  
 Met Glu Ile Pro Gly Ser Leu Cys Lys Lys Val Lys Leu Ser Asn Asn  
           1                  5                  10                  15

Ala Gln Asn Trp Gly Met Gln Arg Ala Thr Asn Val Thr Tyr Gln Ala  
 20 25 30  
 His His Val Ser Arg Asn Lys Arg Gly Gln Val Val Gly Thr Arg Gly  
 35 40 45  
 Gly Phe Arg Gly Cys Thr Val Trp Leu Thr Gly Leu Ser Gly Ala Gly  
 50 55 60  
 Lys Thr Thr Val Ser Met Ala Leu Glu Glu Tyr Leu Val Cys His Gly  
 65 70 75 80  
 Ile Pro Cys Tyr Thr Leu Asp Gly Asp Asn Ile Arg Gln Gly Leu Asn  
 85 90 95  
 Lys Asn Leu Gly Phe Ser Pro Glu Asp Arg Glu Glu Asn Val Arg Arg  
 100 105 110  
 Ile Ala Glu Val Ala Lys Leu Phe Ala Asp Ala Gly Leu Val Cys Ile  
 115 120 125  
 Thr Ser Phe Ile Ser Pro Tyr Thr Gln Asp Arg Asn Asn Ala Arg Gln  
 130 135 140  
 Ile His Glu Gly Ala Ser Leu Pro Phe Phe Glu Val Phe Val Asp Ala  
 145 150 155 160  
 Pro Leu His Val Cys Glu Gln Arg Asp Val Lys Gly Leu Tyr Lys Lys  
 165 170 175  
 Ala Arg Ala Gly Glu Ile Lys Gly Phe Thr Gly Ile Asp Ser Glu Tyr  
 180 185 190  
 Glu Lys Pro Glu Ala Pro Glu Leu Val Leu Lys Thr Asp Ser Cys Asp  
 195 200 205  
 Val Asn Asp Cys Val Gln Gln Val Val Glu Leu Leu Gln Glu Arg Asp  
 210 215 220  
 Ile Val Pro Val Asp Ala Ser Tyr Glu Val Lys Glu Leu Tyr Val Pro  
 225 230 235 240  
 Glu Asn Lys Leu His Leu Ala Lys Thr Asp Ala Glu Thr Leu Pro Ala  
 245 250 255  
 Leu Lys Ile Asn Lys Val Asp Met Gln Trp Val Gln Val Leu Ala Glu  
 260 265 270  
 Gly Trp Ala Thr Pro Leu Asn Gly Phe Met Arg Glu Arg Glu Tyr Leu  
 275 280 285  
 Gln Cys Leu His Phe Asp Cys Leu Leu Asp Gly Gly Val Ile Asn Leu  
 290 295 300  
 Ser Val Pro Ile Val Leu Thr Ala Thr His Glu Asp Lys Glu Arg Leu  
 305 310 315 320

Asp Gly Cys Thr Ala Phe Ala Leu Met Tyr Glu Gly Arg Arg Val Ala  
 325 330 335  
 Ile Leu Arg Asn Pro Glu Phe Phe Glu His Arg Lys Glu Glu Arg Cys  
 340 345 350  
 Ala Arg Gln Trp Gly Thr Thr Cys Lys Asn His Pro Tyr Ile Lys Met  
 355 360 365  
 Val Met Glu Gln Gly Asp Trp Leu Ile Gly Gly Asp Leu Gln Val Leu  
 370 375 380  
 Asp Arg Val Tyr Trp Asn Asp Gly Leu Asp Gln Tyr Arg Leu Thr Pro  
 385 390 395 400  
 Thr Glu Leu Lys Gln Lys Phe Lys Asp Met Asn Ala Asp Ala Val Phe  
 405 410 415  
 Ala Phe Gln Leu Arg Asn Pro Val His Asn Gly His Ala Leu Leu Met  
 420 425 430  
 Gln Asp Thr His Lys Gln Leu Leu Glu Arg Gly Tyr Arg Arg Pro Val  
 435 440 445  
 Leu Leu Leu His Pro Leu Gly Gly Trp Thr Lys Asp Asp Asp Val Pro  
 450 455 460  
 Leu Met Trp Arg Met Lys Gln His Ala Ala Val Leu Glu Glu Gly Val  
 465 470 475 480  
 Leu Asn Pro Glu Thr Thr Val Val Ala Ile Phe Pro Ser Pro Met Met  
 485 490 495  
 Tyr Ala Gly Pro Thr Glu Val Gln Trp His Cys Arg Ala Arg Met Val  
 500 505 510  
 Ala Gly Ala Asn Phe Tyr Ile Val Gly Arg Asp Pro Ala Gly Met Pro  
 515 520 525  
 His Pro Glu Thr Gly Lys Asp Leu Tyr Glu Pro Ser His Gly Ala Lys  
 530 535 540  
 Val Leu Thr Met Ala Pro Gly Leu Ile Thr Leu Glu Ile Val Pro Phe  
 545 550 555 560  
 Arg Val Ala Ala Tyr Asn Lys Lys Lys Lys Arg Met Asp Tyr Tyr Asp  
 565 570 575  
 Ser Glu His His Glu Asp Phe Glu Phe Ile Ser Gly Thr Arg Met Arg  
 580 585 590  
 Lys Leu Ala Arg Glu Gly Gln Lys Pro Pro Glu Gly Phe Met Ala Pro  
 595 600 605  
 Lys Ala Trp Thr Val Leu Thr Glu Tyr Tyr Lys Ser Leu Glu Lys Ala  
 610 615 620

<210> 1386  
 <211> 967  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (40)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (45)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
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 <222> (169)  
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 <220>  
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 <222> (293)  
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 <220>  
 <221> SITE  
 <222> (297)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (547)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <400> 1386  
 Met Gln Arg Ala Val Pro Glu Gly Phe Gly Arg Arg Lys Leu Gly Ser  
   1                  5                  10                  15  
  
 Asp Met Gly Asn Ala Glu Arg Ala Pro Gly Ser Arg Ser Phe Gly Pro  
           20                  25                  30  
  
 Val Pro Thr Leu Leu Leu Leu Xaa Ala Ala Leu Leu Xaa Val Ser Asp  
       35                  40                  45  
  
 Ala Leu Gly Arg Pro Ser Glu Glu Asp Glu Glu Leu Val Val Pro Glu  
   50                  55                  60  
  
 Leu Glu Arg Ala Pro Gly His Gly Thr Thr Arg Leu Arg Leu His Ala  
   65                  70                  75                  80  
  
 Phe Asp Gln Gln Leu Asp Leu Glu Leu Arg Pro Asp Ser Ser Phe Leu

85 90 95  
 Ala Pro Gly Phe Thr Leu Gln Asn Val Gly Arg Lys Ser Gly Ser Glu  
 100 105 110  
 Thr Pro Leu Pro Glu Thr Asp Leu Ala His Cys Phe Tyr Ser Gly Thr  
 115 120 125  
 Val Asn Gly Asp Pro Ser Ser Ala Ala Ala Leu Ser Leu Cys Glu Gly  
 130 135 140  
 Val Arg Gly Ala Phe Tyr Leu Leu Gly Glu Ala Tyr Phe Ile Gln Pro  
 145 150 155 160  
 Leu Pro Ala Ala Ser Glu Arg Leu Xaa Thr Ala Ala Pro Gly Glu Lys  
 165 170 175  
 Pro Pro Ala Pro Leu Gln Phe His Leu Leu Arg Arg Asn Arg Gln Gly  
 180 185 190  
 Asp Val Gly Gly Thr Cys Gly Val Val Asp Asp Glu Pro Arg Pro Thr  
 195 200 205  
 Gly Lys Ala Glu Thr Glu Asp Glu Asp Glu Gly Thr Glu Gly Glu Asp  
 210 215 220  
 Glu Gly Pro Gln Trp Ser Pro Gln Asp Pro Ala Leu Gln Gly Val Gly  
 225 230 235 240  
 Gln Pro Thr Gly Thr Gly Ser Ile Arg Lys Lys Arg Phe Val Ser Ser  
 245 250 255  
 His Arg Tyr Val Glu Thr Met Leu Val Ala Asp Gln Ser Met Ala Glu  
 260 265 270  
 Phe His Gly Ser Gly Leu Lys His Tyr Leu Leu Thr Leu Phe Ser Val  
 275 280 285  
 Ala Ala Arg Leu Xaa Lys His Pro Xaa Ile Arg Asn Ser Val Ser Leu  
 290 295 300  
 Val Val Val Lys Ile Leu Val Ile His Asp Glu Gln Lys Gly Pro Glu  
 305 310 315 320  
 Val Thr Ser Asn Ala Ala Leu Thr Leu Arg Asn Phe Cys Asn Trp Gln  
 325 330 335  
 Lys Gln His Asn Pro Pro Ser Asp Arg Asp Ala Glu His Tyr Asp Thr  
 340 345 350  
 Ala Ile Leu Phe Thr Arg Gln Asp Leu Cys Gly Ser Gln Thr Cys Asp  
 355 360 365  
 Thr Leu Gly Met Ala Asp Val Gly Thr Val Cys Asp Pro Ser Arg Ser  
 370 375 380  
 Cys Ser Val Ile Glu Asp Asp Gly Leu Gln Ala Ala Phe Thr Thr Ala

385		390		395		400
His Glu Leu Gly	His Val Phe Asn Met Pro	His Asp Asp Ala Lys Gln				
	405	410			415	
Cys Ala Ser Leu	Asn Gly Val Asn Gln Asp	Ser His Met Met Ala Ser				
	420	425			430	
Met Leu Ser Asn	Leu Asp His Ser Gln Pro	Trp Ser Pro Cys Ser Ala				
	435	440			445	
Tyr Met Ile Thr	Ser Phe Leu Asp Asn Gly	His Gly Glu Cys Leu Met				
	450	455			460	
Asp Lys Pro Gln	Asn Pro Ile Gln Leu Pro	Gly Asp Leu Pro Gly Thr				
	465	470			475	480
Ser Tyr Asp Ala	Asn Arg Gln Cys Gln Phe	Thr Phe Gly Glu Asp Ser				
	485	490			495	
Lys His Cys Pro	Asp Ala Ala Ser Thr Cys	Ser Thr Leu Trp Cys Thr				
	500	505			510	
Gly Thr Ser Gly	Gly Val Leu Val Cys Gln	Thr Lys His Phe Pro Trp				
	515	520			525	
Ala Asp Gly Thr	Ser Cys Gly Glu Gly Lys	Trp Cys Ile Asn Gly Lys				
	530	535			540	
Cys Val Xaa Lys	Thr Asp Arg Lys His Phe	Asp Thr Pro Phe His Gly				
	545	550			555	560
Ser Trp Gly Met	Trp Gly Pro Trp Gly Asp	Cys Ser Arg Thr Cys Gly				
	565	570			575	
Gly Gly Val Gln	Tyr Thr Met Arg Glu Cys	Asp Asn Pro Val Pro Lys				
	580	585			590	
Asn Gly Gly Lys	Tyr Cys Glu Gly Lys Arg	Val Arg Tyr Arg Ser Cys				
	595	600			605	
Asn Leu Glu Asp	Cys Pro Asp Asn Asn Gly	Lys Thr Phe Arg Glu Glu				
	610	615			620	
Gln Cys Glu Ala	His Asn Glu Phe Ser Lys	Ala Ser Phe Gly Ser Gly				
	625	630			635	640
Pro Ala Val Glu	Trp Ile Pro Lys Tyr Ala	Gly Val Ser Pro Lys Asp				
	645	650			655	
Arg Cys Lys Leu	Ile Cys Gln Ala Lys Gly	Ile Gly Tyr Phe Phe Val				
	660	665			670	
Leu Gln Pro Lys	Val Val Asp Gly Thr Pro	Cys Ser Pro Asp Ser Thr				
	675	680			685	
Ser Val Cys Val	Gln Gly Gln Cys Val Lys	Ala Gly Cys Asp Arg Ile				

690                                      695                                      700  
 Ile Asp Ser Lys Lys Lys Phe Asp Lys Cys Gly Val Cys Gly Gly Asn  
 705                                      710                                      715                                      720  
 Gly Ser Thr Cys Lys Lys Ile Ser Gly Ser Val Thr Ser Ala Lys Pro  
                                     725                                      730                                      735  
 Gly Tyr His Asp Ile Ile Thr Ile Pro Thr Gly Ala Thr Asn Ile Glu  
                                     740                                      745                                      750  
 Val Lys Gln Arg Asn Gln Arg Gly Ser Arg Asn Asn Gly Ser Phe Leu  
                                     755                                      760                                      765  
 Ala Ile Lys Ala Ala Asp Gly Thr Tyr Ile Leu Asn Gly Asp Tyr Thr  
                                     770                                      775                                      780  
 Leu Ser Thr Leu Glu Gln Asp Ile Met Tyr Lys Gly Val Val Leu Arg  
 785                                      790                                      795                                      800  
 Tyr Ser Gly Ser Ser Ala Ala Leu Glu Arg Ile Arg Ser Phe Ser Pro  
                                     805                                      810                                      815  
 Leu Lys Glu Pro Leu Thr Ile Gln Val Leu Thr Val Gly Asn Ala Leu  
                                     820                                      825                                      830  
 Arg Pro Lys Ile Lys Tyr Thr Tyr Phe Val Lys Lys Lys Lys Glu Ser  
                                     835                                      840                                      845  
 Phe Asn Ala Ile Pro Thr Phe Ser Ala Trp Val Ile Glu Glu Trp Gly  
                                     850                                      855                                      860  
 Glu Cys Ser Lys Ser Cys Glu Leu Gly Trp Gln Arg Arg Leu Val Glu  
 865                                      870                                      875                                      880  
 Cys Arg Asp Ile Asn Gly Gln Pro Ala Ser Glu Cys Ala Lys Glu Val  
                                     885                                      890                                      895  
 Lys Pro Ala Ser Thr Arg Pro Cys Ala Asp His Pro Cys Pro Gln Trp  
                                     900                                      905                                      910  
 Gln Leu Gly Glu Trp Ser Ser Cys Ser Lys Thr Cys Gly Lys Gly Tyr  
                                     915                                      920                                      925  
 Lys Lys Arg Ser Leu Lys Cys Leu Ser His Asp Gly Gly Val Leu Ser  
                                     930                                      935                                      940  
 His Glu Ser Cys Asp Pro Leu Lys Lys Pro Lys His Phe Ile Asp Phe  
 945                                      950                                      955                                      960  
 Cys Thr Met Ala Glu Cys Ser  
                                     965

<210> 1387  
 <211> 174

<212> PRT  
<213> Homo sapiens

<400> 1387

Met	Tyr	Val	Arg	Phe	Phe	Phe	Arg	Leu	His	Ser	Ile	Ser	Ser	His	Pro
1				5					10					15	
Ser	Gly	Ile	Val	Ser	Leu	Cys	Leu	Leu	Phe	Glu	Thr	Leu	Leu	Gln	Thr
			20					25					30		
Tyr	Leu	Pro	Gln	Leu	Phe	Tyr	His	Leu	Arg	Glu	Ile	Gly	Ala	Gln	Pro
		35					40					45			
Leu	Arg	Ile	Ser	Phe	Lys	Trp	Met	Val	Arg	Ala	Phe	Ser	Gly	Tyr	Leu
	50					55					60				
Ala	Thr	Asp	Gln	Leu	Leu	Leu	Leu	Trp	Asp	Arg	Ile	Leu	Gly	Tyr	Asn
65					70				75						80
Ser	Leu	Glu	Ile	Leu	Ala	Val	Leu	Ala	Ala	Ala	Val	Phe	Ala	Phe	Arg
				85					90					95	
Ala	Val	Asn	Leu	Met	Glu	Val	Thr	Ser	Leu	Ala	Ala	Ala	Glu	Asn	Leu
			100					105						110	
Ala	Ala	His	Ser	Glu	Gln	Phe	Cys	Thr	Ala	Pro	Leu	Phe	Pro	Glu	Leu
		115					120					125			
Tyr	Arg	Val	Gln	Ile	Pro	Val	Leu	Leu	Asn	Ser	Gly	Arg	Lys	Lys	Ser
	130					135					140				
Ala	Val	Tyr	Trp	Thr	Pro	Ile	Ser	Phe	Asn	Arg	Thr	Lys	Lys	Leu	Arg
145					150				155						160
Leu	Gln	Gly	Arg	Thr	Tyr	Asn	Asp	Gly	Ser	Trp	Asn	Ile	Thr		
				165					170						

<210> 1388  
<211> 62  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (10)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (25)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (38)



<223> Xaa equals any of the naturally occurring amino acids

<400> 1388

Met Gln Pro Ala Trp Leu Trp Leu Trp Xaa Trp Glu Leu Gly Trp Gl  
1 5 10 15  
Leu Val Phe Gly Ala Ile Leu Leu Xaa Leu Gln Asp Gly Leu Phe Asp  
20 25 30  
Ser Val Leu Tyr Cys Xaa His Leu Tyr Ser Gly Leu Phe Phe Pro Trp  
35 40 45  
Ile Val Asn Ser Leu Met Ser Gly Ser Ser Gln Leu Met Ser  
50 55 60

<210> 1389

<211> 600

<212> PRT

<213> Homo sapiens

<400> 1389

Met Pro Leu Thr Leu Leu Ile Leu Ser Cys Leu Ala Glu Leu Thr Met  
1 5 10 15  
Ala Glu Ala Glu Gly Asn Ala Ser Cys Thr Val Ser Leu Gly Gly Ala  
20 25 30  
Asn Met Ala Glu Thr His Lys Ala Met Ile Leu Gln Leu Asn Pro Ser  
35 40 45  
Glu Asn Cys Thr Trp Thr Ile Glu Arg Pro Glu Asn Lys Ser Ile Arg  
50 55 60  
Ile Ile Phe Ser Tyr Val Gln Leu Asp Pro Asp Gly Ser Cys Glu Ser  
65 70 75 80  
Glu Asn Ile Lys Val Phe Asp Gly Thr Ser Ser Asn Gly Pro Leu Leu  
85 90 95  
Gly Gln Val Cys Ser Lys Asn Asp Tyr Val Pro Val Phe Glu Ser Ser  
100 105 110  
Ser Ser Thr Leu Thr Phe Gln Ile Val Thr Asp Ser Ala Arg Ile Gln  
115 120 125  
Arg Thr Val Phe Val Phe Tyr Tyr Phe Phe Ser Pro Asn Ile Ser Ile  
130 135 140  
Pro Asn Cys Gly Gly Tyr Leu Asp Thr Leu Glu Gly Ser Phe Thr Ser  
145 150 155 160  
Pro Asn Tyr Pro Lys Pro His Pro Glu Leu Ala Tyr Cys Val Trp His  
165 170 175  
Ile Gln Val Glu Lys Asp Tyr Lys Ile Lys Leu Asn Phe Lys Glu Ile

180	185	190
Phe Leu Glu Ile Asp Lys Gln Cys Lys Phe Asp Phe Leu Ala Ile Tyr		
195	200	205
Asp Gly Pro Ser Thr Asn Ser Gly Leu Ile Gly Gln Val Cys Gly Arg		
210	215	220
Val Thr Pro Thr Phe Glu Ser Ser Ser Asn Ser Leu Thr Val Val Leu		
225	230	235
Ser Thr Asp Tyr Ala Asn Ser Tyr Arg Gly Phe Ser Ala Ser Tyr Thr		
245	250	255
Ser Ile Tyr Ala Glu Asn Ile Asn Thr Thr Ser Leu Thr Cys Ser Ser		
260	265	270
Asp Arg Met Arg Val Ile Ile Ser Lys Ser Tyr Leu Glu Ala Phe Asn		
275	280	285
Ser Asn Gly Asn Asn Leu Gln Leu Lys Asp Pro Thr Cys Arg Pro Lys		
290	295	300
Leu Ser Asn Val Val Glu Phe Ser Val Pro Leu Asn Gly Cys Gly Thr		
305	310	315
Ile Arg Lys Val Glu Asp Gln Ser Ile Thr Tyr Thr Asn Ile Ile Thr		
325	330	335
Phe Ser Ala Ser Ser Thr Ser Glu Val Ile Thr Arg Gln Lys Gln Leu		
340	345	350
Gln Ile Ile Val Lys Cys Glu Met Gly His Asn Ser Thr Val Glu Ile		
355	360	365
Ile Tyr Ile Thr Glu Asp Asp Val Ile Gln Ser Gln Asn Ala Leu Gly		
370	375	380
Lys Tyr Asn Thr Ser Met Ala Leu Phe Glu Ser Asn Ser Phe Glu Lys		
385	390	395
Thr Ile Leu Glu Ser Pro Tyr Tyr Val Asp Leu Asn Gln Thr Leu Phe		
405	410	415
Val Gln Val Ser Leu His Thr Ser Asp Pro Asn Leu Val Val Phe Leu		
420	425	430
Asp Thr Cys Arg Ala Ser Pro Thr Ser Asp Phe Ala Ser Pro Thr Tyr		
435	440	445
Asp Leu Ile Lys Ser Gly Cys Ser Arg Asp Glu Thr Cys Lys Val Tyr		
450	455	460
Pro Leu Phe Gly His Tyr Gly Arg Phe Gln Phe Asn Ala Phe Lys Phe		
465	470	475
Leu Arg Ser Met Ser Ser Val Tyr Leu Gln Cys Lys Val Leu Ile Cys		



<210> 1391  
 <211> 131  
 <212> PRT  
 <213> Homo sapiens

<400> 1391  
 Met Leu Phe Val Phe Cys Cys Thr Val Phe Phe Val Cys Leu Phe Val  
 1 5 10 15  
 Tyr Leu Val Gly Phe Leu Glu Arg Glu Ile Trp Lys Arg Asp IleHis  
 20 25 30  
 Lys Ser Tyr Thr Pro Thr Phe Pro Phe Tyr His Asp Ile Gln Glu Glu  
 35 40 45  
 Thr Ser Arg Ala Lys Asn Gly Val Lys Lys Gly Ser Met Ala Gly Thr  
 50 55 60  
 Ser Lys Glu Leu Arg Ala Val Ala Leu Lys Asn Tyr Phe Phe Tyr Tyr  
 65 70 75 80  
 Tyr Phe Glu Ser Met Glu Val Phe His Ser Leu Gly Lys Gly Gly Lys  
 85 90 95  
 Ser Ala Phe Ile Phe Ile Gln Ser Tyr Leu Ile Thr Ser Lys Thr His  
 100 105 110  
 Met Leu Glu Ile Ala Phe Ala Gly Ala Lys Tyr Ile Asn Glu Gln Glu  
 115 120 125  
 Tyr Ile His  
 130

<210> 1392  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 1392  
 Met Lys His Ser Phe Leu Ser Ser Asp Leu Ile Trp Cys Val Leu Ser  
 1 5 10 15  
 Leu Leu Cys Leu Gly Val Trp Phe Arg Glu Thr Trp Thr Thr Leu Phe  
 20 25 30  
 Gly Arg Thr Gly Leu Pro Arg Asn Gln Gln Cys Pro Arg Arg Lys Gly  
 35 40 45  
 Leu

<210> 1393  
 <211> 97

<212> PRT  
 <213> Homo sapiens

<400> 1393  
 Met Ser Ile Met Leu Leu Thr Phe Thr Leu His Phe Pro Ser Thr Leu  
           1                  5                  10                  15  
 Leu Ser Tyr Leu Pro Glu Asn Tyr Val Ile Pro Ser Leu Phe Ser Asn  
                   20                  25                  30  
 Leu Gln His Trp Ile Cys Cys Val His Ser Gln Leu Val Thr Cys Phe  
                   35                  40                  45  
 Val Phe Gln Arg Asp Asn Val Ser Thr Glu Lys Arg Thr Leu Ala His  
                   50                  55                  60  
 Ser Asn Thr Ser Ser Ala Thr Ser His His Leu Ser Pro Cys Thr Thr  
                   65                  70                  75                  80  
 Gly Asp Gly Leu Pro Ser Ser Trp Gly Gly Gln Thr His Pro Leu Leu  
                   85                  90                  95  
 His

<210> 1394  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 1394  
 Met Ser Leu Ala Leu Cys Leu Val Pro Leu Val Arg Glu Gly His  
           1                  5                  10                  15

<210> 1395  
 <211> 79  
 <212> PRT  
 <213> Homo sapiens

<400> 1395  
 Met Pro Phe Ile Leu Leu Leu Val Cys Leu Thr Ser Leu Pro Ser Arg  
           1                  5                  10                  15  
 Gly Tyr Asn Glu Lys Lys Leu Thr Asp Asn Ile Gln Cys Glu Ile Phe  
                   20                  25                  30  
 Gln Val Leu Tyr Glu Glu Ala Thr Ala Ser Tyr Lys Glu Glu Ile Val  
                   35                  40                  45  
 His Gln Leu Pro Ser Asn Lys Pro Glu Glu Leu Glu Asn Asn Val Asp  
                   50                  55                  60  
 Gln Ile Leu Lys Trp Ile Glu Gln Trp Ile Lys Asp His Asn Ser

65

70

75

&lt;210&gt; 1396

&lt;211&gt; 47

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1396

Met Trp Gly Pro Phe Cys Pro Phe Leu Phe Leu Phe Ser Arg Leu Ser  
 1 5 10 15

Asn Ser Leu Thr Lys Asp Ser Met Asn Ile Lys Ala His Ile His Met  
 20 25 30

Leu Leu Glu Val Arg Ala Ala His Pro Thr Thr Arg Leu Cys Val  
 35 40 45

&lt;210&gt; 1397

&lt;211&gt; 62

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1397

Met Leu Leu Arg His Pro Leu Pro Val Cys Phe Cys Phe Ser Phe Cys  
 1 5 10 15

Pro Phe Pro Val Ser Ala Leu Ser Leu Leu Pro Ile Gly Leu Val Arg  
 20 25 30

Glu Gly Ala Ala Ser Pro Thr Gln Gln Leu Arg Leu Gln Arg Glu Ser  
 35 40 45

Leu Ser Ser Ile Thr His Arg Val Asn Ile Lys Glu Gly His  
 50 55 60

&lt;210&gt; 1398

&lt;211&gt; 211

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1398

Met Val Phe Leu Lys Phe Phe Cys Met Ser Phe Phe Cys HisLeu Cys  
 1 5 10 15

Gln Gly Tyr Phe Asp Gly Pro Leu Tyr Pro Glu Met Ser Asn Gly Thr  
 20 25 30

Leu His His Tyr Phe Val Pro Asp Gly Asp Tyr Glu Glu Asn AspAsp  
 35 40 45

Pro Glu Lys Cys Gln Leu Leu Phe Arg Val Ser Asp His Arg Arg Cys

50                      55                      60  
 Ser Gln Gly Glu Gly Ser Gln Val Gly Ser Leu Leu Ser Leu Thr Leu  
 65                      70                      75                      80  
 Arg Glu Glu Phe Thr Val Leu Gly His Gln Val Glu Asp Ala Gly Arg  
 85                      90                      95  
 Val Leu Glu Gly Ile Ser Lys Ser Ile Ser Tyr Asp Leu Asp Gly Glu  
 100                      105                      110  
 Glu Ser Tyr Gly Lys Tyr Leu Arg Arg Glu Ser His Gln Ile Gly Asp  
 115                      120                      125  
 Ala Tyr Ser Asn Ser Asp Lys Ser Leu Thr Glu Leu Glu Ser Lys Phe  
 130                      135                      140  
 Lys Gln Gly Gln Glu Gln Asp Ser Arg Gln Glu Ser Arg Leu Asn Glu  
 145                      150                      155                      160  
 Asp Phe Leu Gly Met Leu Val His Thr Arg Ser Leu Leu Lys Glu Thr  
 165                      170                      175  
 Leu Asp Ile Ser Val Gly Leu Arg Asp Lys Tyr Glu Leu Leu Ala Leu  
 180                      185                      190  
 Thr Ile Arg Ser His Gly Thr Arg Leu Gly Arg Leu Lys Asn Asp Tyr  
 195                      200                      205  
 Leu Lys Val  
 210

<210> 1399  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 1399  
 Met Arg Cys Gly Glu Ile Ile Leu Ala Ser Val Leu Gly Leu Leu Leu  
 1                      5                      10                      15  
 Thr Leu Pro Pro Thr Ser Cys His Leu Asn Lys Ser Phe Pro Phe Leu  
 20                      25                      30  
 Cys Leu Pro Trp Ser Gln Ala Leu Ser Leu Asn Pro His Ser Gly Asn  
 35                      40                      45  
 Glu Ala Gly  
 50

<210> 1400  
 <211> 48  
 <212> PRT

<213> Homo sapiens

<400> 1400

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Met Met Leu Tyr Gln Asn Met Leu Leu Tyr Phe Arg Ile Ile Gly Val
 1              5              10              15

Leu Ala Leu Asn Phe Ser Ile Ser Pro Ile Phe Phe His GlySer Leu
      20              25              30

Gly Lys Leu Tyr Val Tyr Ser Ala Ala Lys Tyr Ser Leu Glu Leu Lys
 35              40              45
```

<210> 1401

<211> 80

<212> PRT

<213> Homo sapiens

<400> 1401

```
Met Phe Asp Arg Cys Arg Val Thr Ser Cys Ser Cys Thr Cys Gly Ala
 1              5              10              15

Gly Ala Lys Trp Cys Thr His Val Val Ala Leu Cys Leu Phe Arg Ile
      20              25              30

His Asn Ala Ser Ala Val Cys Leu Arg Ala Pro Val Ser Glu Ser Leu
 35              40              45

Ser Arg Leu Gln Arg Asp Gln Leu Gln Lys Phe Ala Gln Tyr Leu Ile
 50              55              60

Ser Glu Leu Pro Gln Gln Val Gly Glu Val Gly Thr Pro Ser Cys Asn
 65              70              75              80
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<210> 1402

<211> 57

<212> PRT

<213> Homo sapiens

<400> 1402

```
Met Cys Trp Lys Pro Lys Cys Ile Leu Leu Leu Ser Phe Val Phe Gl
 1              5              10              15

Cys Val Ala Ser Ser Thr Phe Asp Pro Leu Gly Ser Glu Arg Pro Trp
      20              25              30

Ser Gln Pro Gln Cys Pro Ile Ser Phe Pro Leu Leu Ile Thr Gly Cys
 35              40              45
```



Cys Trp Phe Ser Met Ser Arg Val Ser  
 50 55

<210> 1403  
 <211> 174  
 <212> PRT  
 <213> Homo sapiens

<400> 1403  
 Met Val Pro Asn Trp Ile Gln Gly Arg Trp Asp Val Leu Leu Cys ~~Al~~  
 1 5 10 15  
 Leu Thr Val Gly Val Leu Pro Ser Ile Gly Ser Arg Gly Gly Trp Phe  
 20 25 30  
 Gly Thr Gln Val Pro Cys Leu Ile Pro Gly Ala Leu Ala Ser Leu His  
 35 40 45  
 Arg Gly Thr Ala Leu Gln Leu Ser Tyr Pro Phe Ser Met Ala Gly Arg  
 50 55 60  
 Thr Ala Glu Arg Pro Cys Ser Met Thr Asn His Ser Phe His Leu Leu  
 65 70 75 80  
 Ser Ile Tyr Trp Glu Leu Gly Thr Val Leu Ser Val Lys Arg Val Leu  
 85 90 95  
 Thr His Leu Leu Gln Gln Pro Gly Lys Ala Gly Ser Ser Val Ser Pro  
 100 105 110  
 Cys Ser Lys Leu Gly Asp Leu Glu His Arg Arg Ser Ser Ala Trp Leu  
 115 120 125  
 Lys Ala His Ser Ser Glu Val Gln Ile Leu Cys Pro Ser Trp His Pro  
 130 135 140  
 Ser Leu Gly Gly Ser Gly Val Gly Ser Leu Gln Ser Val Pro Gly Gly  
 145 150 155 160  
 Trp Met Thr Ser Cys Ser Leu Pro Ala Thr Pro Arg Phe Pro  
 165 170

<210> 1404  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (37)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1404

Met Ile Gly Leu Thr Ile Ile Ala Cys Phe Ala Val Ile Val Ser Ala  
1 5 10 15

Lys Arg Ala Val Glu Arg His Glu Ser Leu Thr Ser Trp Asn Leu Ala  
20 25 30

Lys Lys Ala Lys Xaa Arg Glu Glu Ala Ala Leu Ala Ala Gln Ala Lys  
35 40 45

Ala Asn Asp Ile Leu Ser Asp Lys Val Phe Thr  
50 55

<210> 1405

<211> 44

<212> PRT

<213> Homo sapiens

<400> 1405

Met Ser Tyr Ser Leu Phe Leu Ala Leu Leu Ser Phe Ala Ser Ala Ile  
1 5 10 15

Leu Phe Val Ala Gly Thr Ile Ala Gly Thr Gly Gly Leu Ser Phe His  
20 25 30

Gly Ile Ala Thr Ile Phe Val Leu Thr Gly Lys Trp  
35 40

<210> 1406

<211> 48

<212> PRT

<213> Homo sapiens

<400> 1406

Met Cys Phe Pro Ala Cys Leu Cys Ser Pro Leu Thr Cys Leu Leu Ser  
1 5 10 15

Val Trp Lys Pro Gly Leu Ala His Ala Val Val His Cys Met Leu Glu  
20 25 30

Pro Val Glu Phe Ala Arg Val Val Gln Tyr Glu Ala Gly His Val Leu  
35 40 45

<210> 1407

<211> 37

<212> PRT

<213> Homo sapiens

<400> 1407  
 Met Asn Ser Leu Phe Trp Met Ile Leu Leu Pro Val Ser Gln Asp Gln  
     1                    5                    10                    15  
 Val Val Glu Gly Leu Gln Gly Gly Phe Ser Gln Ile His Met Arg Ile  
                     20                    25                    30  
 Leu Arg Lys His Leu  
                     35

<210> 1408  
 <211> 387  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (228)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (359)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1408  
 Met Gly Ala Phe Leu Asp Lys Pro Lys Thr Glu Lys His Asn Ala His  
     1                    5                    10                    15  
 Gly Ala Gly Asn Gly Leu Arg Tyr Gly Leu Ser Ser Met Gln Gly Trp  
                     20                    25                    30  
 Arg Val Glu Met Glu Asp Ala His Thr Ala Val Val Gly Ile Pro His  
                     35                    40                    45  
 Gly Leu Glu Asp Trp Ser Phe Phe Ala Val Tyr Asp Gly His Ala Gly  
                     50                    55                    60  
 Ser Arg Val Ala Asn Tyr Cys Ser Thr His Leu Leu Glu His Ile Thr  
     65                    70                    75                    80  
 Thr Asn Glu Asp Phe Arg Ala Ala Gly Lys Ser Gly Ser Ala Leu Glu  
                     85                    90                    95  
 Leu Ser Val Glu Asn Val Lys Asn Gly Ile Arg Thr Gly Phe Leu Lys  
                     100                    105                    110  
 Ile Asp Glu Tyr Met Arg Asn Phe Ser Asp Leu Arg Asn Gly Met Asp  
                     115                    120                    125  
 Arg Ser Gly Ser Thr Ala Val Gly Val Met Ile Ser Pro Lys His Ile  
                     130                    135                    140  
 Tyr Phe Ile Asn Cys Gly Asp Ser Arg Ala Val Leu Tyr Arg Asn Gly  
     145                    150                    155                    160

Gln Val Cys Phe Ser Thr Gln Asp His Lys Pro Cys Asn Pro Arg Glu  
 165 170 175  
 Lys Glu Arg Ile Gln Asn Ala Gly Gly Ser Val Met Ile Gln Arg Val  
 180 185 190  
 Asn Gly Ser Leu Ala Val Ser Arg Ala Leu Gly Asp Tyr Asp Tyr Lys  
 195 200 205  
 Cys Val Asp Gly Lys Gly Pro Thr Glu Gln Leu Val Ser Pro Glu Pro  
 210 215 220  
 Glu Val Tyr Xaa Ile Leu Arg Ala Glu Glu Asp Glu Phe Ile Ile Leu  
 225 230 235 240  
 Ala Cys Asp Gly Ile Trp Asp Val Met Ser Asn Glu Glu Leu Cys Glu  
 245 250 255  
 Tyr Val Lys Ser Arg Leu Glu Val Ser Asp Asp Leu Glu Asn Val Cys  
 260 265 270  
 Asn Trp Val Val Asp Thr Cys Leu His Lys Gly Ser Arg Asp Asn Met  
 275 280 285  
 Ser Ile Val Leu Val Cys Phe Ser Asn Ala Pro Lys Val Ser Asp Glu  
 290 295 300  
 Ala Val Lys Lys Asp Ser Glu Leu Asp Lys His Leu Glu Ser Arg Val  
 305 310 315 320  
 Glu Glu Ile Met Glu Lys Ser Gly Glu Glu Gly Met Pro Asp Leu Ala  
 325 330 335  
 His Val Met Arg Ile Leu Ser Ala Glu Asn Ile Pro Asn Leu Pro Pro  
 340 345 350  
 Gly Gly Gly Leu Ala Gly Xaa Arg Asn Val Ile Glu Ala Val Tyr Ser  
 355 360 365  
 Arg Leu Asn Pro His Arg Glu Ser Asp Gly Gly Ala Gly Asp Leu Glu  
 370 375 380  
 Asp Pro Trp  
 385

<210> 1409  
 <211> 190  
 <212> PRT  
 <213> Homo sapiens

<400> 1409  
 Met Met Asn Phe Gln Pro Pro Ser Lys Ala Trp Arg Ala Ser Gln Met  
 1 5 10 15

Met Thr Phe Phe Ile Phe Leu Leu Phe Phe Pro Ser Phe Thr Gly Val  
20 25 30

Leu Cys Thr Leu Ala Ile Thr Ile Trp Arg Leu Lys Pro Ser Ala Asp  
35 40 45

Cys Gly Pro Phe Arg Gly Leu Pro Leu Phe Ile His Ser Ile Tyr Ser  
50 55 60

Trp Ile Asp Thr Leu Ser Thr Arg Pro Gly Tyr Leu Trp Val Val Trp  
65 70 75 80

Ile Tyr Arg Asn Leu Ile Gly Ser Val His Phe Phe Phe Ile Leu Thr  
85 90 95

Leu Ile Val Leu Ile Ile Thr Tyr Leu Tyr Trp Gln Ile Thr Glu Gly  
100 105 110

Arg Lys Ile Met Ile Arg Leu Leu His Glu Gln Ile Ile Asn Glu Gly  
115 120 125

Lys Asp Lys Met Phe Leu Ile Glu Lys Leu Ile Lys Leu Gln Asp Met  
130 135 140

Glu Lys Lys Ala Asn Pro Ser Ser Leu Val Leu Glu Arg Arg Glu Val  
145 150 155 160

Glu Gln Gln Gly Phe Leu His Leu Gly Glu His Asp Gly Ser Leu Asp  
165 170 175

Leu Arg Ser Arg Arg Ser Val Gln Glu Gly Asn Pro Arg Ala  
180 185 190

<210> 1410  
<211> 49  
<212> PRT  
<213> Homo sapiens

<400> 1410  
Met Gly Val Gly Val Leu Arg Ile Leu Leu Ser Cys Leu Gly Glu Ala  
1 5 10 15

Ala Pro Lys Ser Ala Gly Thr Ser Leu Glu Ser Ala Lys Glu Cys Trp  
20 25 30

Ser Ala Ala Thr Leu Leu Val Leu Cys Val Leu Cys Gln Leu Gln His  
35 40 45

Gly

<210> 1411  
<211> 80

<212> PRT

<213> Homo sapiens

<400> 1411

```
Met Glu Ser Leu Pro Glu Asn Lys Pro Leu Val Trp Ser Leu Ala Val
  1              5              10              15

Ser Leu Leu Ala Ile Ile Gly Leu Leu Leu Gly Ser Ser Pro Asp Phe
              20              25              30

Asn Ser Gln Phe Gly Leu Val Asp Ile Pro Val Glu Phe Lys Leu Val
              35              40              45

Ile Ala Gln Val Leu Leu Leu Asp Phe Cys Leu Ala Leu Leu Ala Asp
  50              55              60

Arg Val Leu Gln Phe Phe Leu Gly Thr Pro Lys Leu Lys Val Pro Ser
  65              70              75              80
```

<210> 1412

<211> 44

<212> PRT

<213> Homo sapiens

<400> 1412

```
Met His Leu Leu Leu Ile Asn Phe Leu Pro Ala Val Cys Ile Ile Leu
  1              5              10              15

Leu Lys Asn Leu Gln Gln Ala Leu Cys Phe Ala Gln Leu Phe Ile Met
              20              25              30

Ser Ile Asn Gln Gly Leu Gly Pro Asn Glu Met Ser
              35              40
```

<210> 1413

<211> 52

<212> PRT

<213> Homo sapiens

<400> 1413

```
Met Gln Arg Leu Gly Lys Ala Pro Gly Thr Trp Gln Ala Ile Ser Lys
  1              5              10              15

Cys Trp Leu Leu Leu Leu Ser Leu Pro Phe Ser Gln Ser Ile Ile
              20              25              30

Ile Ser Leu Arg Ala Gly Thr Met Ser Tyr Leu Pro Leu Tyr Phe Pro
              35              40              45

Gln Tyr Phe Pro
```

50

<210> 1414  
<211> 54  
<212> PRT  
<213> Homo sapiens

<400> 1414  
Met Lys Thr His Leu Leu Met Phe Leu Leu Ser Cys Met Ala Arg Cys  
1 5 10 15  
Thr Gly Ile Val Pro Lys Arg Pro Gln Pro Ala Phe Pro Leu Arg Gly  
20 25 30  
Arg Arg Arg Lys Asn Ser Phe Leu Phe Leu Leu Ser Phe Ser Ile Glu  
35 40 45  
Phe Leu Leu Cys Val Trp  
50

<210> 1415  
<211> 47  
<212> PRT  
<213> Homo sapiens

<400> 1415  
Met Ile Asn Glu Trp Cys Phe Lys Leu Leu Ser Leu Trp Ser Phe Ala  
1 5 10 15  
Tyr Ser Asn Cys Lys Leu Ile His Lys Cys Lys Phe Val Phe Leu Lys  
20 25 30  
Lys Lys Lys Thr Gly Lys Glu Val Ser Val Lys Gly Ser Lys Leu  
35 40 45

<210> 1416  
<211> 159  
<212> PRT  
<213> Homo sapiens

<400> 1416  
Met Leu Leu Leu Leu Ile Phe Trp Ile Ala Pro Ala His Gly Pro Trp  
1 5 10 15  
Asn Ile Met Val Tyr Ile Ser Ile Cys Ser Leu Leu Gly Ser Phe Thr  
20 25 30  
Val Pro Ser Thr Lys Gly Ile Gly Leu Ala Ala Gln Asp Ile Leu His  
35 40 45  
Asn Asn Pro Ser Ser Gln Arg Ala Leu Cys Leu Cys Leu Val Leu Leu





<221> SITE  
 <222> (11)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <400> 1418  
 Met Cys Lys Ala Val Cys Lys His Arg Leu Xaa Leu Phe Ala Val Ser  
   1                  5                  10                  15  
  
 Ser Phe Ser Leu Gly Leu Gly Trp Val Cys Val Leu Val Leu Met Leu  
           20                  25                  30  
  
 Trp Pro Val Arg Leu Ser Leu Ala Pro Arg Pro Val Gln Leu Gln Gln  
           35                  40                  45  
  
 Arg Arg Ser His Cys  
           50  
  
  
 <210> 1419  
 <211> 575  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1419  
 Met Arg Val Leu Val Val Thr Ile Ala Pro Ile Tyr Trp Ala Leu Ala  
   1                  5                  10                  15  
  
 Arg Glu Ser Gly Glu Ala Leu Asn Gly His Ser Leu Thr Gly Gly Arg  
           20                  25                  30  
  
 Phe Arg Gln Glu Ser His Val Glu Phe Ala Thr Gly Glu Leu Leu Thr  
           35                  40                  45  
  
 Met Thr Gln Val Ala Arg Gly Leu AspPro Asp Gly Leu Leu Leu Leu  
           50                  55                  60  
  
 Asp Val Val Val Asn Gly Val Val Pro Glu Ser Leu Ala Asp Ala Asp  
   65                  70                  75                  80  
  
 Leu Gln Val Gln Asp Phe Glu Glu His Tyr ValGln Thr Gly Pro Gly  
           85                  90                  95  
  
 Gln Leu Phe Val Gly Ser Thr Gln Arg Phe Phe Gln Gly Gly Leu Pro  
           100                  105                  110  
  
 Ser Phe Leu Arg Cys Asn His Ser Ile Gln Tyr AsnAla Ala Arg Gly  
           115                  120                  125  
  
 Pro Gln Pro Gln Leu Val Gln His Leu Arg Ala Ser Ala Ile Ser Ser  
           130                  135                  140  
  
 Ala Phe Asp Pro Glu Ala Glu Ala Leu Arg Phe Gln Leu Ala Thr Ala  
   145                  150                  155                  160  
  
 Leu Gln Ala Glu Glu Asn Glu Val Gly Cys Pro Glu Gly Phe Glu Leu  
           165                  170                  175

Asp Ser Gln Gly Ala Phe Cys Val Asp Val Asp Glu Cys Ala Trp Asp  
 180 185 190  
 Ala His Leu Cys Arg Glu Gly Gln Arg Cys Val Asn Leu Leu Gly Ser  
 195 200 205  
 Tyr Arg Cys Leu Pro Asp Cys Gly Pro Gly Phe Arg Val Ala Asp Gly  
 210 215 220  
 Ala Gly Cys Glu Asp Val Asp Glu Cys Leu Glu Gly Leu Asp Asp Cys  
 225 230 235 240  
 His Tyr Asn Gln Leu Cys Glu Asn Thr Pro Gly Gly His Arg Cys Ser  
 245 250 255  
 Cys Pro Arg Gly Tyr Arg Met Gln Gly Pro Ser Leu Pro Cys Leu Asp  
 260 265 270  
 Val Asn Glu Cys Leu Gln Leu Pro Lys Ala Cys Ala Tyr Gln Cys His  
 275 280 285  
 Asn Leu Gln Gly Ser Tyr Arg Cys Leu Cys Pro Pro Gly Gln Thr Leu  
 290 295 300  
 Leu Arg Asp Gly Lys Ala Cys Thr Ser Leu Glu Arg Asn Gly Gln Asn  
 305 310 315 320  
 Val Thr Thr Val Ser His Arg Gly Pro Leu Leu Pro Trp Leu Arg Pro  
 325 330 335  
 Trp Ala Ser Ile Pro Gly Thr Ser Tyr His Ala Trp Val Ser Leu Arg  
 340 345 350  
 Pro Gly Pro Met Ala Leu Ser Ser Val Gly Arg Ala Trp Cys Pro Pro  
 355 360 365  
 Gly Phe Ile Arg Gln Asn Gly Val Cys Thr Asp Leu Asp Glu Cys Arg  
 370 375 380  
 Val Arg Asn Leu Cys Gln His Ala Cys Arg Asn Thr Glu Gly Ser Tyr  
 385 390 395 400  
 Gln Cys Leu Cys Pro Ala Gly Tyr Arg Leu Leu Pro Ser Gly Lys Asn  
 405 410 415  
 Cys Gln Asp Ile Asn Glu Cys Glu Glu Glu Ser Ile Glu Cys Gly Pro  
 420 425 430  
 Gly Gln Met Cys Phe Asn Thr Arg Gly Ser Tyr Gln Cys Val Asp Thr  
 435 440 445  
 Pro Cys Pro Ala Thr Tyr Arg Gln Gly Pro Ser Pro Gly Thr Cys Phe  
 450 455 460  
 Arg Arg Cys Ser Gln Asp Cys Gly Thr Gly Gly Pro Ser Thr Leu Gln  
 465 470 475 480

Tyr Arg Leu Leu Pro Leu Pro Leu Gly Val Arg Ala His His Asp Val  
 485 490 495  
 Ala Arg Leu Thr Ala Phe Ser Glu Val Gly Val Pro Ala Asn Arg Thr  
 500 505 510  
 Glu Leu Ser Met Leu Glu Pro Asp Pro Arg Ser Pro Phe Ala Leu Arg  
 515 520 525  
 Pro Leu Arg Ala Gly Leu Gly Ala Val Tyr Thr Arg Arg Ala Leu Thr  
 530 535 540  
 Arg Ala Gly Leu Tyr Arg Leu Thr Val Arg Ala Ala Pro Arg His  
 545 550 555 560  
 Gln Ser Val Phe Val Leu Leu Ile Ala Val Ser Pro Tyr Pro Tyr  
 565 570 575

<210> 1420

<211> 276

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1420

Met Ile His Val Asn Arg Asn Ile Met Asp Phe Lys Leu Phe Leu Val  
 1 5 10 15  
 Phe Val Ala Gly Val Phe Leu Phe Phe Tyr Ala Arg Thr Leu Glu Ser  
 20 25 30  
 Lys Pro Tyr Phe Leu Leu Leu Leu Gly Asn Cys Ala Arg Cys Ser Asn  
 35 40 45  
 Asp Ile Val Phe Val Leu Leu Leu Val Lys Arg Phe Ile Arg Ser Ile  
 50 55 60  
 Ala Pro Phe Gly Ala Leu Met Val Gly Cys Trp Phe Ala Ser Val Tyr  
 65 70 75 80  
 Ile Val Cys Gln Leu Met Glu Asp Leu Lys Trp Leu Trp Xaa Glu Asn  
 85 90 95  
 Arg Ile Tyr Val Ser Gly Xaa Val Leu Ile Val Gly Ile Phe Ser Phe  
 100 105 110

Val Val Cys Tyr Lys His Gly Pro Leu Ala His Asp Arg Ser Arg Ser  
 115 120 125  
 Leu Leu Met Trp Met Leu Arg Leu Leu Ser Leu Val Leu Val Tyr Aa  
 130 135 140  
 Gly Val Ala Val Pro Gln Phe Ala Tyr Ala Ala Ile Ile Leu Leu Met  
 145 150 155 160  
 Ser Ser Trp Ser Leu His Tyr Pro Leu Arg Ala Cys Ser Tyr Met Arg  
 165 170 175  
 Trp Lys Met Glu Gln Trp Phe Thr Ser Lys Glu Leu Val Val Lys Tyr  
 180 185 190  
 Leu Thr Glu Asp Glu Tyr Arg Glu Gln Ala Asp Ala Glu Thr Asn Ser  
 195 200 205  
 Ala Leu Glu Glu Leu Arg Arg Ala Cys Arg Lys Pro Asp Phe Pro Ser  
 210 215 220  
 Trp Leu Val Val Ser Arg Leu His Thr Pro Ser Lys Phe Ala Asp Phe  
 225 230 235 240  
 Val Leu Gly Gly Ser His Leu Ser Pro Glu Glu Ile Ser Leu His Glu  
 245 250 255  
 Glu Gln Tyr Gly Leu Gly Gly Ala Phe Leu Glu Glu Gln Leu Phe Asn  
 260 265 270  
 Pro Ser Thr Ala  
 275

<210> 1421  
 <211> 83  
 <212> PRT  
 <213> Homo sapiens

<400> 1421  
 Met Lys Lys Val Cys Trp Val Trp Ala Leu Ala His Leu Val Leu Cys  
 1 5 10 15  
 Glu Arg Trp Leu Thr Ala Gly Cys Leu Leu Tyr Val Gly Val Ile Gln  
 20 25 30  
 Pro Cys Lys Gly Ser Pro Ser Ser Val Cys Lys Ala Arg Arg Cys Leu  
 35 40 45  
 His Pro Lys Tyr Arg Ile Lys Arg Tyr Gly Tyr Tyr Lys Tyr Ser Val  
 50 55 60  
 Arg Leu Ile Ile Cys His His His Pro His Ala Leu Lys Ala Glu Leu  
 65 70 75 80

Thr Asp Asp

<210> 1422

<211> 192

<212> PRT

<213> Homo sapiens

<400> 1422

Met Glu Ala Leu Leu Gln Ser Leu Val Ile Val Leu Leu Gly Phe Lys  
1 5 10 15

Ser Phe Leu Ser Glu Glu Leu Gly Ser Glu Val Leu Asn Leu Leu Thr  
20 25 30

Asn Lys Gln Tyr Glu Leu Leu Ser Lys Asn Leu Arg Lys Thr Arg Glu  
35 40 45

Leu Phe Val His Gly Leu Pro Gly Ser Gly Lys Thr Ile Leu Ala Leu  
50 55 60

Arg Ile Met Glu Lys Ile Arg Asn Val Phe His Cys Glu Pro Ala Asn  
65 70 75 80

Ile Leu Tyr Ile Cys Glu Asn Gln Pro Leu Lys Lys Leu Val Ser Phe  
85 90 95

Ser Lys Lys Asn Ile Cys Gln Pro Val Thr Arg Lys Thr Phe Met Lys  
100 105 110

Asn Asn Phe Glu His Ile Gln His Ile Ile Ile Asp Asp Ala Gln Asn  
115 120 125

Phe Arg Thr Glu Asp Gly Asp Trp Tyr Gly Lys Ala Lys Phe Ile Thr  
130 135 140

Gln Thr Ala Arg Asp Gly Pro Gly Val Leu Trp Ile Phe Leu Asp Tyr  
145 150 155 160

Phe Gln Thr Tyr His Leu Ser Cys Ser Ala Ser Pro Leu Pro Gln Thr  
165 170 175

Ser Ile Gln Glu Lys Arg Ser Thr Glu Trp Ser Ala Met Gln Val Gln  
180 185 190

<210> 1423

<211> 58

<212> PRT

<213> Homo sapiens



<210> 1426  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 1426  
 Met Val Arg Ser Ser Ser His Phe Lys Phe Phe Leu Met Leu ~~Me~~ Thr  
           1                  5                  10                  15  
 Ser Thr Leu Gln Asp Val Gly His Thr Ser His Pro Ser Ala Gln Pro  
                   20                  25                  30  
 Ser Ser Arg Leu Ser Asp Ser Pro Leu Ile Cys Leu Ile Asn Arg ~~Gn~~  
           35                  40                  45  
 Val

<210> 1427  
 <211> 100  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (92)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (96)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1427  
 Met Phe Val Ala Val Phe Tyr Trp Val Leu Thr Val Phe Phe Leu Ile  
           1                  5                  10                  15  
 Ile Tyr Ile Thr Met Thr Tyr Thr Arg Ile Pro Gln ValPro Trp Thr  
                   20                  25                  30  
 Thr Val Gly Leu Cys Phe Asn Gly Ser Ala Phe Val Leu Tyr Leu Ser  
           35                  40                  45  
 Ala Ala Val Val Asp Ala Ser Ser Val Ser Pro Glu Lys Asp Ser His  
           50                  55                  60  
 Asn Phe Asn Ser Trp Ala Ala Ser Ser Phe Phe Ala Phe Leu Val Thr  
           65                  70                  75                  80  
 Ile Cys Tyr Ala Gly Asn Thr Tyr Phe Ser Phe Xaa Ala Trp Arg Xaa  
                   85                  90                  95  
 Arg Thr Ile Gln  
           100

<210> 1428  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 1428  
 Met Leu Pro Val Cys Val Phe Lys Leu Leu Leu Tyr Leu Tyr Val Leu  
 1 5 10 15  
 Ile Arg Ile Cys Thr Ile Ile Trp Cys Phe Lys Val Tyr Ile Asn Ala  
 20 25 30  
 Val Ile Leu Asn Lys Ser Ser Arg  
 35 40

<210> 1429  
 <211> 142  
 <212> PRT  
 <213> Homo sapiens

<400> 1429  
 Met Gly Cys Leu Val Trp Gly Pro Ser Trp Pro Pro Leu Ser Leu Leu  
 1 5 10 15  
 Ala Ser Leu Leu His Ser Gly Ile Ala Gly Arg Cys Leu Leu Cys Leu  
 20 25 30  
 Phe Lys Gly Leu Ala Ala Ala Ala Ser Leu Gln Ile Arg Asp Leu Ala  
 35 40 45  
 Ser Arg Leu Thr Thr Gly Pro Arg Thr Cys Arg Val Gln Pro Pro Pro  
 50 55 60  
 His Pro Gln Ser Ser Pro Pro Trp Pro Gly Pro Pro Gly Ala Glu Thr  
 65 70 75 80  
 Cys Arg Pro Leu Ser Arg Thr Val Gly Gly Val Cys Pro Ser Asp Trp  
 85 90 95  
 Pro Val Ser Trp Leu Leu Leu Pro Pro Leu Pro Glu Val Val Thr Cys  
 100 105 110  
 Ser Cys Pro Arg Ile Lys Ala Arg Pro Glu Arg Thr Pro Glu Leu Leu  
 115 120 125  
 Cys Ala Trp Gly Gly Arg Gly Lys His Ser Gln Leu Val Ala  
 130 135 140

<210> 1430  
 <211> 57



<212> PRT  
<213> Homo sapiens

<400> 1430  
Met Val Tyr Arg Ala Phe Leu Ile Ile Ile Leu Arg Phe Ile Leu Ia  
1 5 10 15  
Phe Leu Phe Lys Leu Asn Tyr Ser Lys Leu Cys Pro Glu Ile Pro Phe  
20 25 30  
Gly Leu Lys Phe Phe Ser Phe Val Cys Ile Lys Val Gln Ile Lys Lys  
35 40 45  
Thr Ser Arg Lys Arg Arg Pro Tyr Leu  
50 55

<210> 1431  
<211> 74  
<212> PRT  
<213> Homo sapiens

<400> 1431  
Met Thr Asn Val Tyr Ser Leu Asp Gly Ile Leu Val Phe Gly Leu La  
1 5 10 15  
Phe Val Cys Thr Cys Ala Tyr Phe Lys Lys Val Pro Arg Leu Lys Thr  
20 25 30  
Trp Leu Leu Ser Glu Lys Lys Gly Val Trp Gly Val Phe Tyr Lys Ala  
35 40 45  
Ala Val Ile Gly Thr Arg Leu His Ala Ala Val Ala Ile Ala Cys Val  
50 55 60  
Val Met Ala Phe Tyr Val Leu Phe Ile Lys  
65 70

<210> 1432  
<211> 45  
<212> PRT  
<213> Homo sapiens

<400> 1432  
Met Leu Leu Gln Phe Ser Ile Phe Phe Ala Pro Val Val Cys Leu Pro  
1 5 10 15  
Lys Tyr Ser Pro Phe Met Lys Glu Glu Cys Lys Ala Asp Pro Thr Arg  
20 25 30  
Asp Tyr Lys Phe Leu Tyr Ile Tyr Ile Glu Arg Gly Thr  
35 40 45

<210> 1433  
 <211> 63  
 <212> PRT  
 <213> Homo sapiens

<400> 1433  
 Met Cys Tyr Phe Leu Glu Ile Ser Leu Leu Met Val Phe Ala Leu Asn  
 1 5 10 15  
 Ile Lys Ala Ala Tyr Gly Cys Cys Asn Ile Asn Gly Thr Glu Val His  
 20 25 30  
 Arg Ala Lys Gly Pro Val Ser Val Pro Phe Pro Leu Ser Arg Pro Leu  
 35 40 45  
 Ser Gly Thr Pro Leu Leu Asp Arg Leu Arg Pro Phe Gln Thr Leu  
 50 55 60

<210> 1434  
 <211> 262  
 <212> PRT  
 <213> Homo sapiens

<400> 1434  
 Met Leu Phe Ser Ala Leu Leu Leu Glu Val Ile Trp Ile Leu Ala Ala  
 1 5 10 15  
 Asp Gly Gly Gln His Trp Thr Tyr Glu Gly Pro His Gly Gln Asp His  
 20 25 30  
 Trp Pro Ala Ser Tyr Pro Glu Cys Gly Asn Asn Ala Gln Ser Pro Ile  
 35 40 45  
 Asp Ile Gln Thr Asp Ser Val Thr Phe Asp Pro Asp Leu Pro Ala Leu  
 50 55 60  
 Gln Pro His Gly Tyr Asp Gln Pro Gly Thr Glu Pro Leu Asp Leu His  
 65 70 75 80  
 Asn Asn Gly His Thr Val Gln Leu Ser Leu Pro Ser Thr Leu Tyr Leu  
 85 90 95  
 Gly Gly Leu Pro Arg Lys Tyr Val Ala Ala Gln Leu His Leu His Trp  
 100 105 110  
 Gly Gln Lys Gly Ser Pro Gly Gly Ser Glu His Gln Ile Asn Ser Glu  
 115 120 125  
 Ala Thr Phe Ala Glu Leu His Ile Val His Tyr Asp Ser Asp Ser Tyr  
 130 135 140  
 Asp Ser Leu Ser Glu Ala Ala Glu Arg Pro Gln Gly Leu Ala Val Leu  
 145 150 155 160

Gly Ile Leu Ile Glu Leu Glu Lys Leu Gln Gly Thr Leu Phe Ser Thr  
 165 170 175  
 Glu Glu Glu Pro Ser Lys Leu Leu Val Gln Asn Tyr Arg Ala Leu Gln  
 180 185 190  
 Pro Leu Asn Gln Arg Met Val Phe Ala Ser Phe Ile Gln Ala Gly Ser  
 195 200 205  
 Ser Tyr Thr Thr Gly Glu Met Leu Ser Leu Gly Val Gly Ile Leu Val  
 210 215 220  
 Gly Cys Leu Cys Leu Leu Leu Ala Val Tyr Phe Ile Ala Arg Lys Ile  
 225 230 235 240  
 Arg Lys Lys Arg Leu Glu Asn Arg Lys Ser Val Val Phe Thr Ser Ala  
 245 250 255  
 Gln Ala Thr Thr Glu Ala  
 260

<210> 1435  
 <211> 399  
 <212> PRT  
 <213> Homo sapiens

<400> 1435  
 Met Gly Ile Leu Leu Gly Leu Leu Leu Leu Gly His Leu Thr Val Asp  
 1 5 10 15  
 Thr Tyr Gly Arg Pro Ile Leu Glu Val Pro Glu Ser Val Thr Gly Pro  
 20 25 30  
 Trp Lys Gly Asp Val Asn Leu Pro Cys Thr Tyr Asp Pro Leu Gln Gly  
 35 40 45  
 Tyr Thr Gln Val Leu Val Lys Trp Leu Val Gln Arg Gly Ser Asp Pro  
 50 55 60  
 Val Thr Ile Phe Leu Arg Asp Ser Ser Gly Asp His Ile Gln Gln Ala  
 65 70 75 80  
 Lys Tyr Gln Gly Arg Leu His Val Ser His Lys Val Pro Gly Asp Val  
 85 90 95  
 Ser Leu Gln Leu Ser Thr Leu Glu Met Asp Asp Arg Ser His Tyr Thr  
 100 105 110  
 Cys Glu Val Thr Trp Gln Thr Pro Asp Gly Asn Gln Val Val Arg Asp  
 115 120 125  
 Lys Ile Thr Glu Leu Arg Val Gln Lys Leu Ser Val Ser Lys Pro Thr  
 130 135 140  
 Val Thr Thr Gly Ser Gly Tyr Gly Phe Thr Val Pro Gln Gly Met Arg



Ser Leu Leu Ala Met Cys Ala Gly Ala Glu Val Val His Arg Tyr Tyr  
20 25 30  
Arg Pro Asp Leu Thr Ile Pro Glu Ile Pro Pro Lys Arg Gly Glu Leu  
35 40 45  
Lys Thr Glu Leu Leu Gly Leu Lys Glu Arg Lys His Lys Pro Gln Val  
50 55 60  
Ser Gln Gln Glu Glu Leu Lys  
65 70

<210> 1437  
<211> 122  
<212> PRT  
<213> Homo sapiens

<400> 1437  
Met Tyr Arg Ala Ile Asp Ser Phe Pro Arg Trp Arg Ser Tyr Phe Tyr  
1 5 10 15  
Phe Ile Thr Leu Ile Phe Phe Leu Ala Trp Leu Val Lys Asn Val Phe  
20 25 30  
Ile Ala Val Ile Ile Glu Thr Phe Ala Glu Ile Arg Val Gln Phe Gln  
35 40 45  
Gln Met Trp Gly Ser Arg Ser Ser Thr Thr Ser Thr Ala Thr Thr Gln  
50 55 60  
Met Phe His Glu Asp Ala Ala Gly Gly Trp Gln Leu Val Ala Val Asp  
65 70 75 80  
Val Asn Lys Pro Gln Gly Arg Ala Pro Ala Cys Leu Gln Val Gln Tyr  
85 90 95  
Asn Asp Ile Phe Lys Asn Arg Pro Ala Lys Val Phe Glu Phe Tyr Phe  
100 105 110  
Ile Gln Glu Asn Pro Gln Leu Phe Lys Leu  
115 120

<210> 1438  
<211> 70  
<212> PRT  
<213> Homo sapiens

<400> 1438  
Met Leu Phe Trp Lys Phe Gly Ser Phe Leu Phe Phe Cys Leu Pro Leu  
1 5 10 15  
Thr Leu Phe Cys Ile Leu Asn Glu Arg Gly Ile Met His Leu Glu Gly

20                      25                      30  
 Gly Thr Leu Leu Asn Ser Leu Ser His Val Arg His Tyr Leu Arg Leu  
           35                      40                      45  
 Arg Leu Ser Cys Phe Glu Lys Ile Pro Leu His Arg Ser Ile Phe Ile  
           50                      55                      60  
 Phe Leu Leu Leu Leu Leu  
           65                      70

<210> 1439  
 <211> 152  
 <212> PRT  
 <213> Homo sapiens

<400> 1439  
 Met Leu Val Val Cys Leu Leu Leu Ala Thr Gly Phe Cys Leu Phe Arg  
           1                      5                      10                      15  
 Gly Leu Ile Ala Leu Asp Cys Pro Ser Glu Leu Cys Arg Leu Tyr Thr  
                           20                      25                      30  
 Gln Phe Gln Glu Pro Tyr Leu Lys Asp Pro Ala Ala Tyr Pro Lys Ile  
                           35                      40                      45  
 Gln Met Leu Ala Tyr Met Phe Tyr Ser Val Pro Tyr Phe Val Thr Ala  
           50                      55                      60  
 Leu Tyr Gly Leu Val Val Pro Gly Cys Ser Trp Met Pro Asp Ile Thr  
           65                      70                      75                      80  
 Leu Ile His Ala Gly Gly Leu Ala Gln Ala Gln Phe Ser His Ile Gly  
                           85                      90                      95  
 Ala Ser Leu His Ala Arg Thr Ala Tyr Val Tyr Arg Val Pro Glu Glu  
                           100                      105                      110  
 Ala Lys Ile Leu Phe Leu Ala Leu Asn Ile Ala Tyr Gly Val Leu Pro  
           115                      120                      125  
 Gln Leu Leu Ala Tyr Arg Cys Ile Tyr Lys Pro Glu Phe Phe Ile Lys  
           130                      135                      140  
 Thr Lys Ala Glu Glu Lys Val Glu  
           145                      150

<210> 1440  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 1440

Met Pro Ser Leu Asn Leu Val Leu Arg Pro Leu Ile Cys Leu Ala Ser  
 1 5 10 15  
 Ile Thr Ser Phe Leu Ile Phe Phe Pro Leu Leu Thr Leu Ile Leu Cys  
 20 25 30  
 Ser Pro Asn Ser Pro Pro Phe Pro Leu Pro Ala His Pro Glu Arg His  
 35 40 45  
 Thr His Thr Gln  
 50

<210> 1441  
 <211> 217  
 <212> PRT  
 <213> Homo sapiens

<400> 1441  
 Met Ala Ser Lys Met Lys Asp Thr Gly Phe Ile Val Phe Ala Val Leu  
 1 5 10 15  
 Leu Leu Val Ser Cys Leu Ile Leu Ile Phe Val Ile Ala Pro Arg Tyr  
 20 25 30  
 Gly Gln Arg Asn Ile Leu Ile Tyr Ile Ile Ile Cys Ser Val Ile Gly  
 35 40 45  
 Ala Phe Ser Val Ala Ala Val Lys Gly Leu Gly Ile Thr Ile Lys Asn  
 50 55 60  
 Phe Phe Gln Gly Leu Pro Val Val Arg His Pro Leu Pro Tyr Ile Leu  
 65 70 75 80  
 Ser Leu Ile Leu Ala Leu Ser Leu Ser Thr Gln Val Asn Phe Leu Asn  
 85 90 95  
 Arg Ala Leu Asp Ile Phe Asn Thr Ser Leu Val Phe Pro Ile Tyr Tyr  
 100 105 110  
 Val Phe Phe Thr Thr Val Val Val Thr Ser Ser Ile Ile Leu Phe Lys  
 115 120 125  
 Glu Trp Tyr Ser Met Ser Ala Val Asp Ile Ala Gly Thr Leu Ser Gly  
 130 135 140  
 Phe Val Thr Ile Ile Leu Gly Val Phe Met Leu His Ala Phe Lys Asp  
 145 150 155 160  
 Leu Asp Ile Ser Cys Ala Ser Leu Pro His Met His Lys Asn Pro Pro  
 165 170 175  
 Pro Ser Pro Ala Pro Glu Pro Thr Val Ile Arg Leu Glu Asp Lys Asn  
 180 185 190  
 Val Leu Val Asp Asn Ile Glu Leu Ala Ser Thr Ser Ser Pro Glu Glu

195                                      200                                      205  
 Lys Pro Lys Val Phe Ile Ile His Ser  
     210                                      215

<210> 1442  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 1442  
 Met Ser Val Leu Ser Gly Phe Leu Phe Ile Val Val Val Cys Cys Tyr  
     1                                      5                                      10                                      15  
 Cys Cys Phe Val Ala Arg Leu Gln Leu Thr Lys Tyr Glu Phe Lys Asn  
                     20                                      25                                      30  
 Cys Val Val Ile Phe Arg Asp Leu  
                     35                                      40

<210> 1443  
 <211> 135  
 <212> PRT  
 <213> Homo sapiens

<400> 1443  
 Met Gly Leu Trp Leu Gly Met Leu Ala Cys Val Phe Leu Ala Thr Ala  
     1                                      5                                      10                                      15  
 Ala Phe Val Ala Tyr Thr Ala Arg Leu Asp Trp Lys Leu Ala Ala Glu  
                     20                                      25                                      30  
 Glu Ala Lys Lys His Ser Gly Arg Gln Gln Gln Gln Arg Ala Glu Ser  
                     35                                      40                                      45  
 Thr Ala Thr Arg Pro Gly Pro Glu Lys Ala Val Leu Ser Ser Val Ala  
                     50                                      55                                      60  
 Thr Gly Ser Ser Pro Gly Ile Thr Leu Thr Thr Tyr Ser Arg Ser Glu  
                     65                                      70                                      75                                      80  
 Cys His Val Asp Phe Phe Arg Thr Pro Glu Glu Ala His Ala Leu Ser  
                     85                                      90                                      95  
 Ala Pro Thr Ser Arg Leu Ser Val Lys Gln Leu Val Ile Arg Arg Gly  
                     100                                      105                                      110  
 Ala Ala Leu Gly Ala Ala Ser Ala Thr Leu Met Val Gly Leu Thr Val  
                     115                                      120                                      125  
 Arg Ile Leu Ala Thr Arg His  
                     130                                      135



<210> 1444  
 <211> 181  
 <212> PRT  
 <213> Homo sapiens

<400> 1444  
 Met Thr Val Ile Leu Ile Ile Leu Ile ValVal Met Ala Arg Tyr Cys  
           1                  5                  10                  15  
 Arg Ser Lys Asn Lys Asn Gly Tyr Glu Ala Gly Lys Lys Asp His Glu  
                   20                  25                  30  
 Asp Phe Phe Thr Pro Gln Gln His Asp Lys SerLys Lys Pro Lys Lys  
           35                  40                  45  
 Asp Lys Lys Asn Lys Lys Ser Lys Gln Pro Leu Tyr Ser Ser Ile Val  
           50                  55                  60  
 Thr Val Glu Ala Ser Lys Pro Asn Gly Gln Arg Tyr Asp Ser Val Asn  
           65                  70                  75                  80  
 Glu Lys Leu Ser Asp Ser Pro Ser Met Gly Arg Tyr Arg Ser Val Asn  
                   85                  90                  95  
 Gly Gly Pro Gly Ser Pro Asp Leu Ala Arg His Tyr Lys Ser SerSer  
           100                  105                  110  
 Pro Leu Pro Thr Val Gln Leu His Pro Gln Ser Pro Thr Ala Gly Lys  
           115                  120                  125  
 Lys His Gln Ala Val Gln Asp Leu Pro Pro Ala Asn Thr Phe Val Gly  
           130                  135                  140  
 Ala Gly Asp Asn Ile Ser Ile Gly Ser Asp His Cys Ser Glu Tyr Ser  
           145                  150                  155                  160  
 Cys Gln Thr Asn Asn Lys Tyr Ser Lys Gln Met Arg Leu His Pro Tyr  
                   165                  170                  175  
 Ile Thr Val Phe Gly  
                   180

<210> 1445  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<400> 1445  
 Met Gln Leu Thr Leu Gly Gly Ala Ala Val Gly Ala Gly Ala Val Leu  
           1                  5                  10                  15  
 Ala Ala Ser Leu Leu Trp Ala Cys Ala Val Gly Leu Tyr Met Gly Gln  
                   20                  25                  30

Leu Glu Leu Asp Val Glu Leu Val Pro Glu Asp Asp Gly Thr Ala Ser  
 35 40 45

Ala Glu Gly Pro Asp Glu Ala Gly Arg Pro Pro Pro Glu  
 50 55 60

<210> 1446  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

<400> 1446  
 Met Ala Thr Ile Leu Leu Lys Leu Pro Ile Leu Ser Ala Met IleLys  
 1 5 10 15  
 Lys Pro Leu Arg Asn Tyr Leu Lys Thr Ser Glu Thr Thr Met Glu Lys  
 20 25 30  
 Ile Ile Ile Gln Lys Leu Val Ala Asn Leu Lys Phe Leu Pro Leu Gly  
 35 40 45  
 Thr Leu Gln Leu Ala Met Met Ile Ala Asn Leu Ile Lys Lys Leu Phe  
 50 55 60  
 Phe Pro Leu Val Lys Ala Ala Lys  
 65 70

<210> 1447  
 <211> 257  
 <212> PRT  
 <213> Homo sapiens

<400> 1447  
 Met Val Ser Trp Met Ile Cys Arg Leu Val Val Leu Val Phe Gly Met  
 1 5 10 15  
 Leu Cys Pro Ala Tyr Ala Ser Tyr Lys Ala Val Lys Thr Lys Asn Ile  
 20 25 30  
 Arg Glu Tyr Val Arg Trp Met Met Tyr Trp Ile Val Phe Ala Leu Phe  
 35 40 45  
 Met Ala Ala Glu Ile Val Thr Asp Ile Phe Ile Ser Trp Phe Pro Phe  
 50 55 60  
 Tyr Tyr Glu Ile Lys Met Ala Phe Val Leu Trp Leu Leu Ser Pro Tyr  
 65 70 75 80  
 Thr Lys Gly Ala Ser Leu Leu Tyr Arg Lys Phe Val His Pro Ser Leu  
 85 90 95  
 Ser Arg His Glu Lys Glu Ile Asp Ala Tyr Ile Val Gln Ala Lys Glu



Ala Glu Glu Ala Glu Leu Gln Lys Met Lys Ala Ile Gln Arg Glu Lys  
 100 105 110  
 Ser Asn Lys Leu Glu Glu Lys Lys Arg Leu Gln Glu Asn Leu Arg Arg  
 115 120 125  
 Glu Ala Phe Arg Glu His Gln Gln Tyr Lys Thr Ala Glu Phe Leu Ser  
 130 135 140  
 Lys Leu Asn Thr Glu Ser Pro Asp Arg Ser Ala Cys Gln Ser Ala Val  
 145 150 155 160  
 Cys Gly Pro Gln Ser Ser Thr Trp Ala Arg Ser Trp Ala Tyr Arg Asp  
 165 170 175  
 Ser Leu Lys Ala Glu Glu Asn Arg Lys Leu Gln Lys Met Lys Asp Glu  
 180 185 190  
 Gln His Gln Lys Ser Glu Leu Leu Glu Leu Lys Arg Gln Gln Gln Glu  
 195 200 205  
 Gln Glu Arg Ala Lys Ile His Gln Thr Glu His Arg Arg Val Asn Asn  
 210 215 220  
 Ala Phe Leu Asp Arg Leu Gln Gly Lys Ser Gln Pro Gly Gly Leu Glu  
 225 230 235 240  
 Gln Ser Gly Gly Cys Trp Asn Met Asn Ser Gly Asn Ser Trp Gly Ile  
 245 250 255

<210> 1449  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 1449  
 Met Arg Thr Phe Leu Thr Phe Val Ile Leu Lys Val Ile Leu Ile Phe  
 1 5 10 15  
 Leu Ser Ser Cys Ala Ser Phe Thr Arg Asn Leu Leu Thr Trp Pro Asn  
 20 25 30  
 Asp Val Ser Thr Glu Gln Phe Glu Thr Arg Pro Phe Gly Ser Glu Leu  
 35 40 45  
 Leu Gln Thr Val Ile Asn Val Ser Arg Thr  
 50 55

<210> 1450

<211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 1450  
 Met Ile Ile Ala Asn Ile Phe Met Asn Pro Leu Leu Cys Ala Gly Tyr  
     1                    5                    10                    15  
 Leu Phe Cys Phe Ala Tyr Thr Leu Ile His Leu Ile Leu Leu Thr Thr  
                     20                    25                    30  
 Ser Glu Val Cys Ser Ile Thr Ala Pro Phe Phe Thr Ala Val Leu Gln  
                     35                    40                    45  
 Ser Ser Ala Cys Pro Ser Thr His Trp Pro Glu  
                     50                    55

<210> 1451  
 <211> 182  
 <212> PRT  
 <213> Homo sapiens

<400> 1451  
 Met Trp Arg Pro Ser Val Leu Leu Leu Leu Leu Leu Arg His Gly  
     1                    5                    10                    15  
 Ala Gln Gly Lys Pro Ser Pro Asp Ala Gly Pro His Gly Gln Gly Arg  
                     20                    25                    30  
 Val His Gln Ala Ala Pro Leu Ser Asp Ala Pro His Asp Asp Ala His  
                     35                    40                    45  
 Gly Asn Phe Gln Tyr Asp His Glu Ala Phe Leu Gly Arg Glu Val Ala  
                     50                    55                    60  
 Lys Glu Phe Asp Gln Leu Thr Pro Glu Glu Ser Gln Ala Arg Leu Gly  
                     65                    70                    75                    80  
 Arg Ile Val Asp Arg Met Asp Arg Ala Gly Asp Gly Asp Gly Trp Val  
                     85                    90                    95  
 Ser Leu Ala Glu Leu Arg Ala Trp Ile Ala His Thr Gln Gln Arg His  
                     100                    105                    110  
 Ile Arg Asp Ser Val Ser Ala Ala Trp Asp Thr Tyr Asp Thr Asp Arg  
                     115                    120                    125  
 Asp Gly Arg Val Gly Trp Glu Glu Leu Arg Asn Ala Thr Tyr Gly His  
                     130                    135                    140  
 Tyr Ala Pro Gly Glu Glu Phe His Asp Val Glu Asp Ala Glu Thr Tyr  
                     145                    150                    155                    160  
 Lys Lys Met Leu Ala Arg Asp Glu Arg Arg Phe Arg Val Ala Asp Gln  
                     165                    170                    175

Asp Gly Asp Ser Met Ala  
180

<210> 1452  
<211> 286  
<212> PRT  
<213> Homo sapiens

<400> 1452  
Met Ala Met Glu Gly Tyr Trp Arg Phe Leu Ala Leu Leu Gly Ser Ala  
1 5 10 15  
Leu Leu Val Gly Phe Leu Ser Val Ile Phe Ala Leu Val Trp Val Leu  
20 25 30  
His Tyr Arg Glu Gly Leu Gly Trp Asp Gly Ser Ala Leu Glu Phe Asn  
35 40 45  
Trp His Pro Val Leu Met Val Thr Gly Phe Val Phe Ile Gln Gly Ile  
50 55 60  
Ala Ile Ile Val Tyr Arg Leu Pro Trp Thr Trp Lys Cys Ser Lys Leu  
65 70 75 80  
Leu Met Lys Ser Ile His Ala Gly Leu Asn Ala Val Ala Ala Ile Leu  
85 90 95  
Ala Ile Ile Ser Val Val Ala Val Phe Glu Asn His Asn Val Asn Asn  
100 105 110  
Ile Ala Asn Met Tyr Ser Leu His Ser Trp Val Gly Leu Ile Ala Val  
115 120 125  
Ile Cys Tyr Leu Leu Gln Leu Leu Ser Gly Phe Ser Val Phe Leu Leu  
130 135 140  
Pro Trp Ala Pro Leu Ser Leu Arg Ala Phe Leu Met Pro Ile His Val  
145 150 155 160  
Tyr Ser Gly Ile Val Ile Phe Gly Thr Val Ile Ala Thr Ala Leu Met  
165 170 175  
Gly Leu Thr Glu Lys Leu Ile Phe Ser Leu Arg Asp Pro Ala Tyr Ser  
180 185 190  
Thr Phe Pro Pro Glu Gly Val Phe Val Asn Thr Leu Gly Leu Leu Ile  
195 200 205  
Leu Val Phe Gly Ala Leu Ile Phe Trp Ile Val Thr Arg Pro Gln Trp  
210 215 220  
Lys Arg Pro Lys Glu Pro Asn Ser Thr Ile Leu His Pro Asn Gly Gly  
225 230 235 240

Thr Glu Gln Gly Ala Arg Gly Ser Met Pro Ala Tyr Ser Gly Asn Asn  
245 250 255  
Met Asp Lys Ser Asp Ser Glu Leu Asn Ser Glu Val Ala Ala Arg Lys  
260 265 270  
Arg Asn Leu Ala Leu Asp Glu Ala Gly Gln Arg Ser Thr Met  
275 280 285

<210> 1453  
<211> 950  
<212> PRT  
<213> Homo sapiens

<400> 1453  
Met Thr Trp Arg Met Gly Pro Arg Phe Thr Met Leu Leu Ala Met Trp  
1 5 10 15  
Leu Val Cys Gly Ser Glu Pro His Pro His Ala Thr Ile Arg Gly Ser  
20 25 30  
His Gly Gly Arg Lys Val Pro Leu Val Ser Pro Asp Ser Ser Arg Pro  
35 40 45  
Ala Arg Phe Leu Arg His Thr Gly Arg Ser Arg Gly Ile Glu Arg Ser  
50 55 60  
Thr Leu Glu Glu Pro Asn Leu Gln Pro Leu Gln Arg Arg Arg Ser Val  
65 70 75 80  
Pro Val Leu Arg Leu Ala Arg Pro Thr Glu Pro Pro Ala Arg Ser Asp  
85 90 95  
Ile Asn Gly Ala Ala Val Arg Pro Glu Gln Arg Pro Ala Ala Arg Gly  
100 105 110  
Ser Pro Arg Glu Met Ile Arg Asp Glu Gly Ser Ser Ala Arg Ser Arg  
115 120 125  
Met Leu Arg Phe Pro Ser Gly Ser Ser Ser Pro Asn Ile Leu Ala Ser  
130 135 140  
Phe Ala Gly Lys Asn Arg Val Trp Val Ile Ser Ala Pro His Ala Ser  
145 150 155 160  
Glu Gly Tyr Tyr Arg Leu Met Met Ser Leu Leu Lys Asp Asp Val Tyr  
165 170 175  
Cys Glu Leu Ala Glu Arg His Ile Gln Gln Ile Val Leu Phe His Gln  
180 185 190  
Ala Gly Glu Glu Gly Gly Lys Val Arg Arg Ile Thr Ser Glu Gly Gln  
195 200 205  
Ile Leu Glu Gln Pro Leu Asp Pro Ser Leu Ile Pro Lys Leu Met Ser

210	215	220
Phe Leu Lys Leu Glu Lys Gly Lys Phe Gly Met Val Leu Leu Lys Lys		
225	230	235 240
Thr Leu Gln Val Glu Glu Arg Tyr Pro Tyr Pro Val Arg Leu Glu Ala		
	245	250 255
Met Tyr Glu Val Ile Asp Gln Gly Pro Ile Arg Arg Ile Glu Lys Ile		
	260	265 270
Arg Gln Lys Gly Phe Val Gln Lys Cys Lys Ala Ser Gly Val Glu Gly		
	275	280 285
Gln Val Val Ala Glu Gly Asn Asp Gly Gly Gly Gly Ala Gly Arg Pro		
	290	295 300
Ser Leu Gly Ser Glu Lys Lys Lys Glu Asp Pro Arg Arg Ala Gln Val		
305	310	315 320
Pro Pro Thr Arg Glu Ser Arg Val Lys Val Leu Arg Lys Leu Ala Ala		
	325	330 335
Thr Ala Pro Ala Leu Pro Gln Pro Pro Ser Thr Pro Arg Ala Thr Thr		
	340	345 350
Leu Pro Pro Ala Pro Ala Thr Thr Val Thr Arg Ser Thr Ser Arg Ala		
	355	360 365
Val Thr Val Ala Ala Arg Pro Met Thr Thr Thr Ala Phe Pro Thr Thr		
	370	375 380
Gln Arg Pro Trp Thr Pro Ser Pro Ser His Arg Pro Pro Thr Thr Thr		
385	390	395 400
Glu Val Ile Thr Ala Arg Arg Pro Ser Val Ser Glu Asn Leu Tyr Pro		
	405	410 415
Pro Ser Arg Lys Asp Gln His Arg Glu Arg Pro Gln Thr Thr Arg Arg		
	420	425 430
Pro Ser Lys Ala Thr Ser Leu Glu Ser Phe Thr Asn Ala Pro Pro Thr		
	435	440 445
Thr Ile Ser Glu Pro Ser Thr Arg Ala Ala Gly Pro Gly Arg Phe Arg		
	450	455 460
Asp Asn Arg Met Asp Arg Arg Glu His Gly His Arg Asp Pro Asn Val		
465	470	475 480
Val Pro Gly Pro Pro Lys Pro Ala Lys Glu Lys Pro Pro Lys Lys Lys		
	485	490 495
Ala Gln Asp Lys Ile Leu Ser Asn Glu Tyr Glu Glu Lys Tyr Asp Leu		
	500	505 510
Ser Arg Pro Thr Ala Ser Gln Leu Glu Asp Glu Leu Gln Val Gly Asn		



515					520					525					
Val	Pro	Leu	Lys	Lys	Ala	Lys	Glu	Ser	Lys	Lys	His	Glu	Lys	Leu	Glu
530						535					540				
Lys	Pro	Glu	Lys	Glu	Lys	Lys	Lys	Lys	Met	Lys	Asn	Glu	Asn	Ala	Asp
545					550					555					560
Lys	Leu	Leu	Lys	Ser	Glu	Lys	Gln	Met	Lys	Lys	Ser	Glu	Lys	Lys	Ser
				565					570						575
Lys	Gln	Glu	Lys	Glu	Lys	Ser	Lys	Lys	Lys	Lys	Gly	Gly	Lys	Thr	Glu
			580					585					590		
Gln	Asp	Gly	Tyr	Gln	Lys	Pro	Thr	Asn	Lys	His	Phe	Thr	Gln	Ser	Pro
		595					600					605			
Lys	Lys	Ser	Val	Ala	Asp	Leu	Leu	Gly	Ser	Phe	Glu	Gly	Lys	Arg	Arg
	610					615					620				
Leu	Leu	Leu	Ile	Thr	Ala	Pro	Lys	Ala	Glu	Asn	Asn	Met	Tyr	Val	Gln
625					630					635					640
Gln	Arg	Asp	Glu	Tyr	Leu	Glu	Ser	Phe	Cys	Lys	Met	Ala	Thr	Arg	Lys
				645					650					655	
Ile	Ser	Val	Ile	Thr	Ile	Phe	Gly	Pro	Val	Asn	Asn	Ser	Thr	Met	Lys
			660					665					670		
Ile	Asp	His	Phe	Gln	Leu	Asp	Asn	Glu	Lys	Pro	Met	Arg	Val	Val	Asp
		675					680					685			
Asp	Glu	Asp	Leu	Val	Asp	Gln	Arg	Leu	Ile	Ser	Glu	Leu	Arg	Lys	Glu
	690					695					700				
Tyr	Gly	Met	Thr	Tyr	Asn	Asp	Phe	Phe	Met	Val	Leu	Thr	Asp	Val	Asp
705					710					715					720
Leu	Arg	Val	Lys	Gln	Tyr	Tyr	Glu	Val	Pro	Ile	Thr	Met	Lys	Ser	Val
				725					730					735	
Phe	Asp	Leu	Ile	Asp	Thr	Phe	Gln	Ser	Arg	Ile	Lys	Asp	Met	Glu	Lys
		740						745					750		
Gln	Lys	Lys	Glu	Gly	Ile	Val	Cys	Lys	Glu	Asp	Lys	Lys	Gln	Ser	Leu
		755					760					765			
Glu	Asn	Phe	Leu	Ser	Arg	Phe	Arg	Trp	Arg	Arg	Arg	Leu	Leu	Val	Ile
	770					775					780				
Ser	Ala	Pro	Asn	Asp	Glu	Asp	Trp	Ala	Tyr	Ser	Gln	Gln	Leu	Ser	Ala
785					790					795					800
Leu	Ser	Gly	Gln	Ala	Cys	Asn	Phe	Gly	Leu	Arg	His	Ile	Thr	Ile	Leu
				805					810					815	
Lys	Leu	Leu	Gly	Val	Gly	Glu	Glu	Val	Gly	Gly	Val	Leu	Glu	Leu	Phe

820	825	830
Pro Ile Asn Gly Ser Ser Val Val Glu Arg Glu Asp Val Pro Ala His		
835	840	845
Leu Val Lys Asp Ile Arg Asn Tyr Phe GlnVal Ser Pro Glu Tyr Phe		
850	855	860
Ser Met Leu Leu Val Gly Lys Asp Gly Asn Val Lys Ser Trp Tyr Pro		
865	870	875
Ser Pro Met Trp Ser Met Val Ile Val Tyr Asp LeuIle Asp Ser Met		
885	890	895
Gln Leu Arg Arg Gln Glu Met Ala Ile Gln Gln Ser Leu Gly Met Arg		
900	905	910
Cys Pro Glu Asp Glu Tyr Ala Gly Tyr Gly Tyr His SerTyr His Gln		
915	920	925
Gly Tyr Gln Asp Gly Tyr Gln Asp Asp Tyr Arg His His Glu Ser Tyr		
930	935	940
His His Gly Tyr Pro Tyr		
945	950	

<210> 1454

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1454

Met His Leu Ala Arg Leu Val Gly Ser Cys Ser Leu Leu Leu Leu Leu		
1	5	10
Gly Ala Leu Ser Gly Trp Ala Ala Ser Asp Asp Pro Ile Glu Lys Val		
20	25	30
Ile Glu Gly Ile Asn Arg Gly Leu Ser Asn Ala Glu Arg Glu Val Gly		
35	40	45
Lys Ala Leu Asp Gly Ile Asn Ser Gly Ile Thr His Ala Gly Arg Glu		
50	55	60
Val Glu Lys Val Phe Asn Gly Leu Ser Asn Met Gly Ser His Thr Gly		
65	70	75
Lys Glu Leu Asp Lys Gly Val Gln Gly Leu Asn His Gly Met Asp Lys		
85	90	95
Val Ala His Glu Ile Asn His Gly Ile Gly Gln Ala Gly Lys Glu Ala		
100	105	110
Glu Lys Leu Gly His Gly Val Asn Asn Ala Ala Gly Gln Ala Gly Lys		
115	120	125

Glu Ala Asp Lys Ala Val Gln Gly Phe His Thr Gly Val His Gln Ala  
 130 135 140  
 Gly Lys Glu Ala Glu Lys Leu Gly Gln Gly Val Asn His Ala Ala Asp  
 145 150 155 160  
 Gln Ala Gly Lys Glu Val Glu Lys Leu Gly Gln Gly Ala His His Ala  
 165 170 175  
 Ala Gly Gln Ala Gly Lys Glu Leu Gln Asn Ala His Asn Gly Val Asn  
 180 185 190  
 Gln Ala Ser Lys Glu Ala Asn Gln Leu Leu Asn Gly Asn His Gln Ser  
 195 200 205  
 Gly Ser Ser Ser His Gln Gly Gly Ala Thr Thr Thr Pro Leu Ala Ser  
 210 215 220  
 Gly Ala Ser Val Asn Thr Pro Phe Ile Asn Leu Pro Ala Leu Trp Arg  
 225 230 235 240  
 Ser Val Ala Asn Ile Met Pro  
 245

<210> 1455  
 <211> 85  
 <212> PRT  
 <213> Homo sapiens

<400> 1455  
 Met Gly Cys Arg Gly Asn Lys Leu Phe Val Leu Ser Tyr Cys Thr Cys  
 1 5 10 15  
 Leu Thr Trp Leu Leu Gly Thr Lys Ser Gln Lys Asn Pro Phe Gln Val  
 20 25 30  
 Cys Met Ser Gly Gly Trp Ala Val Ser Arg Leu Glu Thr Gly Phe Gln  
 35 40 45  
 Ala Leu His Asp Gly Arg Ala Ser Ser Pro Leu Ser Ala Ala Cys Val  
 50 55 60  
 Leu Asp Arg Thr Val Ala Arg Arg Trp Lys Pro Pro Ser Val Pro Leu  
 65 70 75 80  
 Ala His His Thr Lys  
 85

<210> 1456  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens

<400> 1456

Met Ala Gly Cys Cys Leu Lys Leu Phe Gly Val Leu Ser Leu Cys Phe  
1 5 10 15  
Leu Cys Gly Leu Ile Ser Ile Glu Arg Val Ile Cys Asn Pro Val Ser  
20 25 30  
Ala Asp Phe Gln Val Ser Thr Phe Cys Gln Arg His Cys Leu Leu Arg  
35 40 45  
Ser Lys Val Met Phe Leu Ile Lys Gly Ile Thr Ala Thr Ile Glu Val  
50 55 60  
Ile Asn Glu Asn Cys Thr Leu Val Ala Ala Pro Pro Ile Gly Phe Pro  
65 70 75 80  
Ile Val Phe Leu

<210> 1457

<211> 42

<212> PRT

<213> Homo sapiens

<400> 1457

Met Phe Thr Leu Leu Leu Ser Ser Phe Phe Leu Gln His Cys Leu Gln  
1 5 10 15  
Asn Asn Leu Tyr Ala Ser Glu Arg Glu Gln Ile Phe Ser Asn Phe Leu  
20 25 30  
Gln Leu Ser Ser Leu Lys Arg Arg Ile Cys  
35 40

<210> 1458

<211> 41

<212> PRT

<213> Homo sapiens

<400> 1458

Met Leu Val Ser Met Cys Met Gly Leu Leu Phe Leu Gln Val Gly Lys  
1 5 10 15  
Gln Cys Ile Ala Phe Phe Tyr Thr Glu Ser Thr Arg Arg Pro Lys His  
20 25 30  
Leu Lys Thr Met Gly Ser Gly Tyr Ala  
35 40

<210> 1459

<211> 97  
 <212> PRT  
 <213> Homo sapiens

<400> 1459

Met	Cys	Lys	Leu	Cys	Phe	Tyr	Leu	Tyr	Leu	Cys	Thr	Trp	Phe	Pro	Phe
1				5					10					15	
Gly	Ala	Ser	Gly	Leu	Phe	Trp	Asp	Lys	Trp	Cys	Leu	Pro	Arg	His	Leu
			20					25					30		
Pro	Val	Val	Ser	Gly	Gln	Glu	Gln	Leu	Ser	Ser	Ser	Leu	Pro	Ala	Ala
			35				40					45			
Leu	Leu	Phe	Leu	Gly	Arg	Arg	Trp	Arg	Pro	Pro	Leu	Arg	Val	Ser	Pro
	50					55					60				
Gly	Leu	Ser	Phe	Arg	Gly	Gly	Arg	Ala	Gly	Glu	Pro	Gln	Gly	Trp	Gly
	65				70					75					80
Asp	Ser	Trp	Glu	Met	Glu	Val	Ala	Pro	Ala	Pro	Leu	Asp	Gln	Tyr	Trp
				85					90					95	

Leu

<210> 1460  
 <211> 218  
 <212> PRT  
 <213> Homo sapiens

<400> 1460

Met	His	Phe	Leu	Phe	Arg	Phe	Ile	Val	Phe	Phe	Tyr	Leu	Trp	Gly	Leu
1				5					10					15	
Phe	Thr	Ala	Gln	Arg	Gln	Lys	Lys	Glu	Glu	Ser	Thr	Glu	Glu	Val	Lys
			20					25					30		
Ile	Glu	Val	Leu	His	Arg	Pro	Glu	Asn	Cys	Ser	Lys	Thr	Ser	Lys	Lys
		35					40					45			
Gly	Asp	Leu	Leu	Asn	Ala	His	Tyr	Asp	Gly	Tyr	Leu	Ala	Lys	Asp	Gly
	50					55					60				
Ser	Lys	Phe	Tyr	Cys	Ser	Arg	Thr	Gln	Asn	Glu	Gly	His	Pro	Lys	Trp
	65				70					75				80	
Phe	Val	Leu	Gly	Val	Gly	Gln	Val	Ile	Lys	Gly	Leu	Asp	Ile	Ala	Met
				85					90					95	
Thr	Asp	Met	Cys	Pro	Gly	Glu	Lys	Arg	Lys	Val	Val	Ile	Pro	Pro	Ser
		100					105						110		
Phe	Ala	Tyr	Gly	Lys	Glu	Gly	Tyr	Ala	Glu	Gly	Lys	Ile	Pro	Pro	Asp
		115					120					125			

Ala Thr Leu Ile Phe Glu Ile Glu Leu TyrAla Val Thr Lys Gly Pro  
130 135 140

Arg Ser Ile Glu Thr Phe Lys Gln Ile Asp Met Asp Asn Asp Arg Gln  
145 150 155 160

Leu Ser Lys Ala Glu Ile Asn Leu Tyr Leu Gln ArgGlu Phe Glu Lys  
165 170 175

Asp Glu Lys Pro Arg Asp Lys Ser Tyr Gln Asp Ala Val Leu Glu Asp  
180 185 190

Ile Phe Lys Lys Asn Asp His Asp Gly Asp Gly Phe IleSer Pro Lys  
195 200 205

Glu Tyr Asn Val Tyr Gln His Asp Glu Leu  
210 215

<210> 1461  
<211> 47  
<212> PRT  
<213> Homo sapiens

<400> 1461  
Met Leu Thr Val Lys Ile Leu Lys Cys Phe LeuGly Trp Ala Val Val  
1 5 10 15

Ala Gly Gly Leu Gly Arg Ser Gln Ala Arg Pro Ser Leu Leu Phe Asn  
20 25 30

Arg Leu Ser Pro Ser Val Pro Gln Met Arg Ile GlnGln Pro Trp  
35 40 45

<210> 1462  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 1462  
Met Ala Pro Leu Trp Thr Leu Arg Pro Val Leu Val Trp Thr Thr Pro  
1 5 10 15

Thr Ser Met Gly Glu Val Ser Pro Trp Leu Thr Ser Thr Val Met Ala  
20 25 30

Lys Trp Thr Ser Ser Met Ala Thr Gly Met Ala Pro Thr Ala Ser Ile  
35 40 45

Cys Arg  
50

<210> 1463  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 1463  
 Met Arg Ile Ser Arg Cys Asn Ile Ser Leu Glu Ile Val Ser Pro Ser  
 1 5 10 15  
 Ile Leu Leu Thr Phe Leu Asp Leu Ile Ile Leu Leu Trp Ala Leu Ala  
 20 25 30  
 Ser Cys Tyr Arg Arg Phe Thr Ser Phe Pro Ala Leu Asn Leu Pro Asp  
 35 40 45  
 Val Asn Ser Thr Leu His Tyr Leu Gln Gln  
 50 55

<210> 1464  
 <211> 606  
 <212> PRT  
 <213> Homo sapiens

<400> 1464  
 Met Thr Val Val Gly Asn Pro Arg Ser Trp Ser Cys Gln Trp Leu Pro  
 1 5 10 15  
 Ile Leu Ile Leu Leu Leu Gly Thr Gly His Gly Pro Gly Val Glu Gly  
 20 25 30  
 Val Thr His Tyr Lys Ala Gly Asp Pro Val Ile Leu Tyr Val Asn Lys  
 35 40 45  
 Val Gly Pro Tyr His Asn Pro Gln Glu Thr Tyr His Tyr Tyr Gln Leu  
 50 55 60  
 Pro Val Cys Cys Pro Glu Lys Ile Arg His Lys Ser Leu Ser Leu Gly  
 65 70 75 80  
 Glu Val Leu Asp Gly Asp Arg Met Ala Glu Ser Leu Tyr Glu Ile Arg  
 85 90 95  
 Phe Arg Glu Asn Val Glu Lys Arg Ile Leu Cys His Met Gln Leu Ser  
 100 105 110  
 Ser Ala Gln Val Glu Gln Leu Arg Gln Ala Ile Glu Glu Leu Tyr Tyr  
 115 120 125  
 Phe Glu Phe Val Val Asp Asp Leu Pro Ile Arg Gly Phe Val Gly Tyr  
 130 135 140  
 Met Glu Glu Ser Gly Phe Leu Pro His Ser His Lys Ile Gly Leu Trp  
 145 150 155 160

Thr His Leu Asp Phe His Leu Glu Phe His Gly Asp Arg Ile Ile Phe  
 165 170 175  
 Ala Asn Val Ser Val Arg Asp Val Lys Pro His Ser Leu Asp Gly Leu  
 180 185 190  
 Arg Pro Asp Glu Phe Leu Gly Leu Thr His Thr Tyr Ser Val Arg Trp  
 195 200 205  
 Ser Glu Thr Ser Val Glu Arg Arg Ser Asp Arg Arg Arg Gly Asp Asp  
 210 215 220  
 Gly Gly Phe Phe Pro Arg Thr Leu Glu Ile His Trp Leu Ser Ile Ile  
 225 230 235 240  
 Asn Ser Met Val Leu Val Phe Leu Leu Val Gly Phe Val Ala Val Ile  
 245 250 255  
 Leu Met Arg Val Leu Arg Asn Asp Leu Ala Arg Tyr Asn Leu Asp Glu  
 260 265 270  
 Glu Thr Thr Ser Ala Gly Ser Gly Asp Asp Phe Asp Gln Gly Asp Asn  
 275 280 285  
 Gly Trp Lys Ile Ile His Thr Asp Val Phe Arg Phe Pro Pro Tyr Arg  
 290 295 300  
 Gly Leu Leu Cys Ala Val Leu Gly Val Gly Ala Gln Phe Leu Ala Leu  
 305 310 315 320  
 Gly Thr Gly Ile Ile Val Met Ala Leu Leu Gly Met Phe Asn Val His  
 325 330 335  
 Arg His Gly Ala Ile Asn Ser Ala Ala Ile Leu Leu Tyr Ala Leu Thr  
 340 345 350  
 Cys Cys Ile Ser Gly Tyr Val Ser Ser His Phe Tyr Arg Gln Ile Gly  
 355 360 365  
 Gly Glu Arg Trp Val Trp Asn Ile Ile Leu Thr Thr Ser Leu Phe Ser  
 370 375 380  
 Val Pro Phe Phe Leu Thr Trp Ser Val Val Asn Ser Val His Trp Ala  
 385 390 395 400  
 Asn Gly Ser Thr Gln Ala Leu Pro Ala Thr Thr Ile Leu Leu Leu Leu  
 405 410 415  
 Thr Val Trp Leu Leu Val Gly Phe Pro Leu Thr Val Ile Gly Gly Ile  
 420 425 430  
 Phe Gly Lys Asn Asn Ala Ser Pro Phe Asp Ala Pro Cys Arg Thr Lys  
 435 440 445  
 Asn Ile Ala Arg Glu Ile Pro Pro Gln Pro Trp Tyr Lys Ser Thr Val  
 450 455 460



Ile His Met Thr Val Gly Gly Phe Leu Pro Phe Ser Ala Ile Ser Val  
 465 470 475 480  
 Glu Leu Tyr Tyr Ile Phe Ala Thr Val Trp Gly Arg Glu Gln Tyr Thr  
 485 490 495  
 Leu Tyr Gly Ile Leu Phe Phe Val Phe Ala Ile Leu Leu Ser Val Gly  
 500 505 510  
 Ala Cys Ile Ser Ile Ala Leu Thr Tyr Phe Gln Leu Ser Gly Glu Asp  
 515 520 525  
 Tyr Arg Trp Trp Trp Arg Ser Val Leu Ser Val Gly Ser Thr Gly Leu  
 530 535 540  
 Phe Ile Phe Leu Tyr Ser Val Phe Tyr Tyr Ala Arg Arg Ser Asn Met  
 545 550 555 560  
 Ser Gly Ala Val Gln Thr Val Glu Phe Phe Gly Tyr Ser Leu Leu Thr  
 565 570 575  
 Gly Tyr Val Phe Phe Leu Met Leu Gly Thr Ile Ser Phe Phe Ser Ser  
 580 585 590  
 Leu Lys Phe Ile Arg Tyr Ile Tyr Val Asn Leu Lys Met Asp  
 595 600 605

<210> 1465  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<400> 1465  
 Met Ala Val Arg Cys Ile Leu Ala Gly Gly Cys Leu Pro Ala Val Arg  
 1 5 10 15  
 Gly Thr Phe Ser Val Leu Leu Lys Gly Met Tyr Lys Pro Met Gly Asp  
 20 25 30  
 Leu Ile Ser Cys Val Phe Arg Cys Val Ala Gly Gly Leu Gly Trp Gly  
 35 40 45  
 Gly Gly Ala Ser Glu Gln Cys Val Glu Ser Leu Val Val Thr  
 50 55 60

<210> 1466  
 <211> 295  
 <212> PRT  
 <213> Homo sapiens

<400> 1466  
 Met Gly Leu Pro Val Ser Trp Ala Pro Pro Ala Leu Trp Val Leu Gly  
 1 5 10 15

Cys Cys Ala Leu Leu Leu Ser Leu Trp Ala Leu Cys Thr Ala Cys Arg  
 20 25 30  
 Arg Pro Glu Asp Ala Val Ala Pro Arg Lys Arg Ala Arg Arg Gln Arg  
 35 40 45  
 Ala Arg Leu Gln Gly Ser Ala Thr Ala Ala Glu Ala Ser Leu Leu Arg  
 50 55 60  
 Arg Thr His Leu Cys Ser Leu Ser Lys Ser Asp Thr Arg Leu His Glu  
 65 70 75 80  
 Leu His Arg Gly Pro Arg Ser Ser Arg Ala Leu Arg Pro Ala Ser Met  
 85 90 95  
 Asp Leu Leu Arg Pro His Trp Leu Glu Val Ser Arg Asp Ile Thr Gly  
 100 105 110  
 Pro Gln Ala Ala Pro Ser Ala Phe Pro His Gln Glu Leu Pro Arg Ala  
 115 120 125  
 Leu Pro Ala Ala Ala Ala Thr Ala Gly Cys Ala Gly Leu Glu Ala Thr  
 130 135 140  
 Tyr Ser Asn Val Gly Leu Ala Ala Leu Pro Gly Val Ser Leu Ala Ala  
 145 150 155 160  
 Ser Pro Val Val Ala Glu Tyr Ala Arg Val Gln Lys Arg Lys Gly Thr  
 165 170 175  
 His Arg Ser Pro Gln Glu Pro Gln Gln Gly Lys Thr Glu Val Thr Pro  
 180 185 190  
 Ala Ala Gln Val Asp Val Leu Tyr Ser Arg Val Cys Lys Pro Lys Arg  
 195 200 205  
 Arg Asp Pro Gly Pro Thr Thr Asp Pro Leu Asp Pro Lys Gly Gln Gly  
 210 215 220  
 Ala Ile Leu Ala Leu Ala Gly Asp Leu Ala Tyr Gln Thr Leu Pro Leu  
 225 230 235 240  
 Arg Ala Leu Asp Val Asp Ser Gly Pro Leu Glu Asn Val Tyr Glu Ser  
 245 250 255  
 Ile Arg Glu Leu Gly Asp Pro Ala Gly Arg Ser Ser Thr Cys Gly Ala  
 260 265 270  
 Gly Thr Pro Pro Ala Ser Ser Cys Pro Ser Leu Gly Arg Gly Trp Arg  
 275 280 285  
 Pro Leu Pro Ala Ser Leu Pro  
 290 295

<210> 1467  
 <211> 83  
 <212> PRT  
 <213> Homo sapiens

<400> 1467  
 Met Cys Leu Leu Val Glu Tyr Ser Leu Met Ile Leu Thr Ile Ile Pro  
     1                    5                    10                    15  
 Ser Leu Leu Ser Phe Val Leu Cys Leu Lys Gly Ile Lys His Gly Asn  
                     20                    25                    30  
 Tyr Ile Phe Gln Thr Pro Leu Pro Glu Gly Tyr Gly Trp Ile Ser Ala  
                     35                    40                    45  
 Met Ser Gly Leu Cys Ile Lys Phe Gly Arg Arg Lys Arg Arg Lys Thr  
                     50                    55                    60  
 Trp Leu Leu Gln Val Gly Thr Leu Ala Thr Ile Asp Thr Glu Phe Ala  
     65                    70                    75                    80  
 Arg Ser Cys

<210> 1468  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (32)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1468  
 Met Leu Ser Phe Phe Ile Cys Leu Leu Ile Phe Val His Leu Leu Leu  
     1                    5                    10                    15  
 Leu Ser Phe Leu Ile Ser Asp Trp Pro Pro Pro Thr Gly Ser Ala Xaa  
                     20                    25                    30  
 His Lys Ile Leu Arg Leu Met Val Val Gln Arg Leu Ser Leu Leu Asp  
                     35                    40                    45  
 Gln Arg Lys Arg Trp Ser Glu Ala  
     50                    55

<210> 1469  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 1469

Met Leu Thr Ser Trp Ile Ala Ser Ile Pro Ser Arg Cys Gly Val Leu  
 1 5 10 15  
 Cys Ile Cys Leu Cys Phe Gly Leu Val His Cys Leu Asp Leu Ser Arg  
 20 25 30  
 Lys Ile Thr Ile Phe Ser Gly Ala Val Tyr Met Val Lys Asn Ile Gln  
 35 40 45  
 Phe Trp Leu  
 50

<210> 1470  
 <211> 88  
 <212> PRT  
 <213> Homo sapiens

<400> 1470  
 Met Leu Phe Leu Ser Ala Ser Ile Cys Thr Ser Ala Leu Phe Leu Cys  
 1 5 10 15  
 Leu Ser Arg Leu Thr Ile Ser Ala Pro His Pro Ala Trp Trp Gly Arg  
 20 25 30  
 Met Pro Thr His Thr Ser Pro Gly His Leu Leu Glu Leu Gln Pro Arg  
 35 40 45  
 Gly Met Thr Glu Ser Ile Leu Phe Ser Ile Ser Ala Leu Val Ser Asn  
 50 55 60  
 Ser Trp Gly Lys Met Thr Gln Leu Thr Ser Gly Ser His Ser Trp Ser  
 65 70 75 80  
 Ser Gly Leu Gln Asn Phe Gln Ala  
 85

<210> 1471  
 <211> 90  
 <212> PRT  
 <213> Homo sapiens

<400> 1471  
 Met Ala Ile Arg Leu Val Phe Leu Ala Leu Ala Gly Leu Val Asp Gly  
 1 5 10 15  
 Lys Pro Val Trp Ile Thr Leu Trp Met Asp Ala Lys Arg Pro Asn Leu  
 20 25 30  
 Ala Gly Thr Gly Ser Thr Trp Gly Ser Arg Arg Asp Ser His Cys Cys  
 35 40 45  
 His Gly Pro Thr Ala Trp Ser Leu Pro Cys Leu Leu Cys Leu Phe Arg  
 50 55 60

Ala Gln Gln Lys Asp Arg Glu Arg Ser Leu Leu Gly Val Pro Leu Pro  
65 70 75 80

Thr Leu Gln Gly Gly Asn Leu Ser Asp Gly  
85 90

<210> 1472  
<211> 267  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (227)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 1472  
Met Leu Ile Ala Val Gly Ile His Leu Leu Leu Leu Met Phe Glu Val  
1 5 10 15  
Leu Val Cys Asp Arg Xaa Glu Arg Gly Thr His Phe Trp Leu Leu Val  
20 25 30  
Phe Met Pro Leu Phe Phe Val Ser Pro Val Ser Val Ala Ala Cys Val  
35 40 45  
Trp Gly Phe Arg His Asp Arg Ser Leu Glu Leu Glu Ile Leu Cys Ser  
50 55 60  
Val Asn Ile Leu Gln Phe Ile Phe Ile Ala Leu Lys Leu Asp Arg Ile  
65 70 75 80  
Ile His Trp Pro Trp Leu Val Val Phe Val Pro Leu Trp Ile Leu Met  
85 90  
Ser Phe Leu Cys Leu Val Val Leu Tyr Tyr Ile Val Trp Ser Leu Leu  
100 105 110  
Phe Leu Arg Ser Leu Asp Val Val Ala Glu Gln Arg Arg Thr His Val  
115 120 125  
Thr Met Ala Ile Ser Trp Ile Thr Ile Val Val Pro Leu Leu Thr Phe  
130 135 140  
Glu Val Leu Leu Val His Arg Leu Asp Gly His Asn Thr Phe Ser Tyr  
145 150 155 160  
Val Ser Ile Phe Val Pro Leu Trp Leu Ser Leu Leu Thr Leu Met Ala  
165 170 175

Thr Thr Phe Arg Arg Lys Gly Gly Asn His Trp Trp Phe Gly Ile Arg  
 180 185 190  
 Arg Asp Phe Cys Gln Phe Leu Leu Glu Ile Phe Pro Phe Leu Arg Glu  
 195 200 205  
 Tyr Gly Asn Ile Ser Tyr Asp Leu His His Glu Asp Ser Glu Asp Ala  
 210 215 220  
 Glu Glu Xaa Ser Val Pro Glu Ala Pro Lys Ile Ala Pro Ile Phe Gly  
 225 230 235 240  
 Lys Lys Ala Arg Val Val Ile Thr Gln Ser Pro Gly Lys Tyr Val Pro  
 245 250 255  
 Pro Pro Pro Lys Leu Asn Ile Asp Met Pro Asp  
 260 265

<210> 1473  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 1473  
 Met Leu Ser Ala Val Leu Thr Met Leu Arg Phe Ile Ile Ala Phe Ser  
 1 5 10 15  
 Leu Leu Phe Cys Ser Cys Ser Thr Asp Lys His Cys Thr Trp Tyr His  
 20 25 30  
 Ala Leu Pro His Phe Lys Lys Ile Cys Leu Thr Glu Arg Lys Lys Met  
 35 40 45  
 Trp Phe Gly Leu Ala Ala Val Leu Ile Tyr Gly Ile  
 50 55 60

<210> 1474  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<400> 1474  
 Met Cys Glu Gly Trp Leu His Pro Ile Phe Leu Tyr Cys Cys Phe Trp  
 1 5 10 15  
 Thr Thr Thr Pro Ser Cys Ser Ala Phe Gly Ile Leu Asp Leu His Gln  
 20 25 30  
 Gln His Pro Ile Pro Thr Pro Ser Ser Trp Phe Ser Gly Leu Cys Pro  
 35 40 45  
 Trp Thr Glu Leu His His Cys Leu Arg

50

55

&lt;210&gt; 1475

&lt;211&gt; 672

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1475

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Met Cys Ser Arg Val Pro Leu Leu Leu Pro Leu Leu Leu Leu Leu Ala
 1              5              10              15

Leu Gly Pro Gly Val Gln Gly Cys Pro Ser Gly Cys Gln Cys Ser Gln
          20          25          30

Pro Gln Thr Val Phe Cys Thr Ala Arg Gln Gly Thr Thr Val Pro Arg
          35          40          45

Asp Val Pro Pro Asp Thr Val Gly Leu Tyr Val Phe Glu Asn Gly Ile
 50              55              60

Thr Met Leu Asp Ala Gly Ser Phe Ala Gly Leu Pro Gly Leu Gln Leu
 65              70              75              80

Leu Asp Leu Ser Gln Asn Gln Ile Ala Ser Leu Pro Ser Gly Val Phe
          85          90          95

Gln Pro Leu Ala Asn Leu Ser Asn Leu Asp Leu Thr Ala Asn Arg Leu
          100          105          110

His Glu Ile Thr Asn Glu Thr Phe Arg Gly Leu Arg Arg Leu Glu Arg
          115          120          125

Leu Tyr Leu Gly Lys Asn Arg Ile Arg His Ile Gln Pro Gly Ala Phe
          130          135          140

Asp Thr Leu Asp Arg Leu Leu Glu Leu Lys Leu Gln Asp Asn Glu Leu
          145          150          155          160

Arg Ala Leu Pro Pro Leu Arg Leu Pro Arg Leu Leu Leu Leu Asp Leu
          165          170          175

Ser His Asn Ser Leu Leu Ala Leu Glu Pro Gly Ile Leu Asp Thr Ala
          180          185          190

Asn Val Glu Ala Leu Arg Leu Ala Gly Leu Gly Leu Gln Gln Leu Asp
          195          200          205

Glu Gly Leu Phe Ser Arg Leu Arg Asn Leu His Asp Leu Asp Val Ser
          210          215          220

Asp Asn Gln Leu Glu Arg Val Pro Pro Val Ile Arg Gly Leu Arg Gly
          225          230          235          240

Leu Thr Arg Leu Arg Leu Ala Gly Asn Thr Arg Ile Ala Gln Leu Arg
          245          250          255

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Pro Glu Asp Leu Ala Gly Leu Ala Ala Leu Gln Glu Leu Asp Val Ser  
 260 265 270  
 Asn Leu Ser Leu Gln Ala Leu Pro Gly Asn Leu Ser Gly Leu Phe Pro  
 275 280 285  
 Arg Leu Arg Leu Leu Ala Ala Ala Arg Asn Pro Phe Asn Cys Val Cys  
 290 295 300  
 Pro Leu Ser Trp Phe Gly Pro Trp Val Arg Glu Ser His Val Th Leu  
 305 310 315 320  
 Ala Ser Pro Glu Glu Thr Arg Cys His Phe Pro Pro Lys Asn Ala Gly  
 325 330 335  
 Arg Leu Leu Leu Glu Leu Asp Tyr Ala Asp Phe Gly Cys Phe Ala Thr  
 340 345 350  
 Thr Thr Thr Ala Thr Val Pro Thr Thr Arg Pro Val Val Arg Glu Pro  
 355 360 365  
 Thr Ala Leu Ser Ser Ser Leu Ala Pro Thr Trp Leu Ser Pro Thr Ala  
 370 375 380  
 Pro Ala Thr Glu Ala Pro Ser Pro Pro Ser Thr Ala Pro Pro Thr Val  
 385 390 395 400  
 Gly Pro Val Pro Gln Pro Gln Asp Cys Pro Pro Ser Thr Cys Leu Asn  
 405 410 415  
 Gly Gly Thr Cys His Leu Gly Thr Arg His His Leu Ala Cys Leu Cys  
 420 425 430  
 Pro Glu Gly Phe Thr Gly Leu Tyr Cys Glu Ser Gln Met Gly Gln Gly  
 435 440 445  
 Thr Arg Pro Ser Pro Thr Pro Val Thr Pro Arg Pro Pro Arg Ser Leu  
 450 455 460  
 Thr Leu Gly Ile Glu Pro Val Ser Pro Thr Ser Leu Arg Val Gly Leu  
 465 470 475 480  
 Gln Arg Tyr Leu Gln Gly Ser Ser Val Gln Leu Arg Ser Leu Arg Leu  
 485 490 495  
 Thr Tyr Arg Asn Leu Ser Gly Pro Asp Lys Arg Leu Val Thr Leu Arg  
 500 505 510  
 Leu Pro Ala Ser Leu Ala Glu Tyr Thr Val Thr Gln Leu Arg Pro Asn  
 515 520 525  
 Ala Thr Tyr Ser Val Cys Val Met Pro Leu Gly Pro Gly Arg Val Pro  
 530 535 540  
 Glu Gly Glu Glu Ala Cys Gly Glu Ala His Thr Pro Pro Ala Val His  
 545 550 555 560





<212> PRT  
<213> Homo sapiens

<400> 1477  
Met Arg Phe Trp His Leu Val Phe Cys Phe Phe Phe Phe Pro Glu Ala  
1 5 10 15  
His Val Tyr Pro Thr Ser Trp Ser Val Ser Glu Gln Gly Cys Ala Thr  
20 25 30  
Ile Ser Val Thr Pro Gly Ile Leu Asn Trp Ile Phe Val Glu Glu Glu  
35 40 45  
Asn Asn Thr Val Leu Asp Phe Pro  
50 55

<210> 1478  
<211> 434  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (381)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 1478  
Met Ala Leu Thr Ala Pro Ser Leu Ser Leu Asp Ala Arg Gln Leu Trp  
1 5 10 15  
Asp Ser Pro Glu Thr Ala Pro Ala Ala Arg Thr Pro GlnSer Pro Ala  
20 25 30  
Pro Cys Val Leu Leu Arg Ala Gln Arg Ser Leu Ala Pro Glu Pro Lys  
35 40 45  
Glu Pro Leu Ile Pro Ala Ser Pro Lys Ala Glu Pro Ile Trp Glu Leu  
50 55 60  
Pro Thr Arg Ala Pro Arg Leu Ser Ile Gly Asp Leu Asp Phe Ser Asp  
65 70 75 80  
Leu Gly Glu Asp Glu Asp Gln Asp Met Leu Asn Val Glu Ser Val Glu  
85 90 95  
Ala Gly Lys Asp Ile Pro Ala Pro Ser Pro Pro Leu Pro Leu Leu Ser  
100 105 110  
Gly Val Pro Pro Pro Pro Pro Leu Pro Pro Pro Pro Pro Ile Lys Gly  
115 120 125  
Pro Phe Pro Pro Pro Pro Pro Leu Pro Leu Ala Ala Pro Leu Pro His  
130 135 140  
Ser Val Pro Asp Ser Ser Ala Leu Pro Thr Lys Arg Lys Thr Val Lys

145		150		155		160
Leu Phe Trp Arg	Glu Leu Lys Leu Ala	Gly Gly His Gly Val Ser Ala				
	165	170			175	
Ser Arg Phe Gly	Pro Cys Ala Thr Leu Trp Ala Ser Leu Asp Pro Val					
	180	185			190	
Ser Val Asp Thr Ala Arg Leu Glu His Leu Phe Glu Ser Arg Ala Lys						
	195	200			205	
Glu Val Leu Pro Ser Lys Lys Ala Gly Glu Gly Arg Arg Thr Met Thr						
	210	215			220	
Thr Val Leu Asp Pro Lys Arg Ser Asn Ala Ile Asn Ile Gly Leu Thr						
	225	230			235	240
Thr Leu Pro Pro Val His Val Ile Lys Ala Ala Leu Leu Asn Phe Asp						
	245	250			255	
Glu Phe Ala Val Ser Lys Asp Gly Ile Glu Lys Leu Leu Thr Met Met						
	260	265			270	
Pro Thr Glu Glu Glu Arg Gln Lys Ile Glu Glu Ala Gln Leu Ala Asn						
	275	280			28	
Pro Asp Ile Pro Leu Gly Pro Ala Glu Asn Phe Leu Met Thr Leu Ala						
	290	295			300	
Ser Ile Gly Gly Leu Ala Ala Arg Leu Gln Leu Trp Ala Phe Lys Leu						
	305	310			315	320
Asp Tyr Asp Ser Met Glu Arg Glu Ile Ala Glu Pro Leu Phe Asp Leu						
	325	330			335	
Lys Val Gly Met Glu Gln Leu Val Gln Asn Ala Thr Phe Arg Cys Ile						
	340	345			350	
Leu Ala Thr Leu Leu Ala Val Gly Asn Phe Leu Asn Gly Ser Gln Ser						
	355	360			365	
Ser Gly Phe Glu Leu Ser Tyr Leu Glu Lys Val Ser Xaa Val Lys Asp						
	370	375			380	
Thr Val Arg Arg Gln Ser Leu Leu His His Leu Cys Ser Leu Val Leu						
	385	390			395	400
Gln Thr Arg Pro Glu Ser Ser Asp Leu Tyr Ser Glu Ile Pro Ala Leu						
	405	410			415	
Thr Arg Cys Ala Lys Val Ser Thr Cys Gln Asn Gln Pro Arg Pro Asp						
	420	425			430	
Lys Ala						

<210> 1479  
 <211> 305  
 <212> PRT  
 <213> Homo sapiens

<400> 1479

Met	Ala	Ala	Gly	Leu	Ala	Arg	Leu	Leu	Leu	Leu	Leu	Gly	Leu	Ser	Ala
1				5					10					15	
Gly	Gly	Pro	Ala	Pro	Ala	Gly	Ala	Ala	Lys	Met	Lys	Val	Val	Glu	Glu
			20					25					30		
Pro	Asn	Ala	Phe	Gly	Val	Asn	Asn	Pro	Phe	Leu	Pro	Gln	Ala	Ser	Arg
		35					40					45			
Leu	Gln	Ala	Lys	Arg	Asp	Pro	Ser	Pro	Val	Ser	Gly	Pro	Val	His	Leu
	50					55					60				
Phe	Arg	Leu	Ser	Gly	Lys	Cys	Phe	Ser	Leu	Val	Glu	Ser	Thr	Tyr	Lys
	65				70					75					80
Tyr	Glu	Phe	Cys	Pro	Phe	His	Asn	Val	Thr	Gln	His	Glu	Gln	Thr	Phe
				85					90					95	
Arg	Trp	Asn	Ala	Tyr	Ser	Gly	Ile	Leu	Gly	Ile	Trp	His	Glu	Trp	Glu
			100					105					110		
Ile	Ala	Asn	Asn	Thr	Phe	Thr	Gly	Met	Trp	Met	Arg	Asp	Gly	Asp	Ala
		115					120					125			
Cys	Arg	Ser	Arg	Ser	Arg	Gln	Ser	Lys	Val	Glu	Leu	Ala	Cys	Gly	Lys
	130					135					140				
Ser	Asn	Arg	Leu	Ala	His	Val	Ser	Glu	Pro	Ser	Thr	Cys	Val	Tyr	Ala
	145				150					155					160
Leu	Thr	Phe	Glu	Thr	Pro	Leu	Val	Cys	His	Pro	His	Ala	Leu	Leu	Val
				165					170					175	
Tyr	Pro	Thr	Leu	Pro	Glu	Ala	Leu	Gln	Arg	Gln	Trp	Asp	Gln	Val	Glu
			180					185					190		
Gln	Asp	Leu	Ala	Asp	Glu	Leu	Ile	Thr	Pro	Gln	Gly	His	Glu	Lys	Leu
		195					200					205			
Leu	Arg	Thr	Leu	Phe	Glu	Asp	Ala	Gly	Tyr	Leu	Lys	Thr	Pro	Glu	Glu
	210					215					220				
Asn	Glu	Pro	Thr	Gln	Leu	Glu	Gly	Gly	Pro	Asp	Ser	Leu	Gly	Phe	Glu
	225				230					235					240
Thr	Leu	Glu	Asn	Cys	Arg	Lys	Ala	His	Lys	Glu	Leu	Ser	Lys	Glu	Ile
				245					250					255	
Lys	Arg	Leu	Lys	Gly	Leu	Leu	Thr	Gln	His	Gly	Ile	Pro	Tyr	Thr	Arg
			260					265					270		

Pro Thr Glu Thr Ser Asn Leu Glu His Leu Gly His Glu Thr Pro Arg  
 275 280 285

Ala Lys Ser Pro Glu Gln Leu Arg Gly Asp Pro Gly Leu Arg Gly Ser  
 290 295 300

Leu  
 305

<210> 1480  
 <211> 289  
 <212> PRT  
 <213> Homo sapiens

<400> 1480  
 Met Phe Val Leu Leu Tyr Val Thr Ser Phe Ala Ile Cys Ala Ser Gly  
 1 5 10 15

Gln Pro Arg Gly Asn Gln Leu Lys Gly Glu Asn Tyr Ser Pro Arg Tyr  
 20 25 30

Ile Cys Ser Ile Pro Gly Leu Pro Gly Pro Pro Gly Pro Pro Gly Ala  
 35 40 45

Asn Gly Ser Pro Gly Pro His Gly Arg Ile Gly Leu Pro Gly Arg Asp  
 50 55 60

Gly Arg Asp Gly Arg Lys Gly Glu Lys Gly Glu Lys Gly Thr Ala Gly  
 65 70 75 80

Leu Arg Gly Lys Thr Gly Pro Leu Gly Leu Ala Gly Glu Lys Gly Asp  
 85 90 95

Gln Gly Glu Thr Gly Lys Lys Gly Pro Ile Gly Pro Glu Gly Glu Lys  
 100 105 110

Gly Glu Val Gly Pro Ile Gly Pro Pro Gly Pro Lys Gly Asp Arg Gly  
 115 120 125

Glu Gln Gly Asp Pro Gly Leu Pro Gly Val Cys Arg Cys Gly Ser Ile  
 130 135 140

Val Leu Lys Ser Ala Phe Ser Val Gly Ile Thr Thr Ser Tyr Pro Glu  
 145 150 155 160

Glu Arg Leu Pro Ile Ile Phe Asn Lys Val Leu Phe Asn Glu Gly Glu  
 165 170 175

His Tyr Asn Pro Ala Thr Gly Lys Phe Ile Cys Ala Phe Pro Gly Ile  
 180 185 190

Tyr Tyr Phe Ser Tyr Asp Ile Thr Leu Ala Asn Lys His Leu Ala Ile  
 195 200 205

Gly Leu Val His Asn Gly Gln Tyr Arg Ile Lys Thr Phe Asp Ala Asn  
 210 215 220  
 Thr Gly Asn His Asp Val Ala Ser Gly Ser Thr Val Ile Tyr Leu Gln  
 225 230 235 240  
 Pro Glu Asp Glu Val Trp Leu Glu Ile Phe Phe Thr Asp Gln Asn Gly  
 245 250 255  
 Leu Phe Ser Asp Pro Gly Trp Ala Asp Ser Leu Phe Ser Gly Phe Leu  
 260 265 270  
 Leu Tyr Val Asp Thr Asp Tyr Leu Asp Ser Ile Ser Glu Asp Asp Glu  
 275 280 285  
 Leu

<210> 1481  
 <211> 68  
 <212> PRT  
 <213> Homo sapiens

<400> 1481  
 Met Ala Thr Val Gly Leu Ser Trp Lys Lys Glu Leu Val Ile Leu Leu  
 1 5 10 15  
 Val Gly Pro Gly Ala Ala Ala Leu Gln Pro Thr His Thr Cys CysSer  
 20 25 30  
 Leu Pro Ser Leu Ser Ser Leu Phe Pro Leu Arg Leu Asn Thr Lys Thr  
 35 40 45  
 Ser Pro Lys Thr Thr Arg Thr Asn Leu Tyr Leu Leu Ser Ile Ala Pro  
 50 55 60  
 Leu Ser His Leu  
 65

<210> 1482  
 <211> 243  
 <212> PRT  
 <213> Homo sapiens

<400> 1482  
 Met Ser Ser Gly Thr Glu Leu Leu Trp Pro Gly Ala Ala Leu Leu Val  
 1 5 10 15  
 Leu Leu Gly Val Ala Ala Ser Leu Cys Val Arg Cys Ser Arg Pro Gly  
 20 25 30  
 Ala Lys Arg Ser Glu Lys Ile Tyr Gln Gln Arg Ser Leu Arg Glu Asp  
 35 40 45

Gln Gln Ser Phe Thr Gly Ser Arg Thr Tyr Ser Leu Val Gly Gln Ala  
     50                                    55                    60  
 Trp Pro Gly Pro Leu Ala Asp Met Ala Pro Thr Arg Lys Asp Lys Leu  
     65                            70                    75                    80  
 Leu Gln Phe Tyr Pro Ser Leu Glu Asp Pro Ala Ser Ser Arg Tyr Gln  
                             85                            90                    95  
 Asn Phe Ser Lys Gly Ser Arg His Gly Ser Glu Glu Ala Tyr Ile Asp  
                     100                            105                    110  
 Pro Ile Ala Met Glu Tyr Tyr Asn Trp Gly Arg Phe Ser Lys Pro Pro  
                     115                            120                    125  
 Glu Asp Asp Asp Ala Asn Ser Tyr Glu Asn Val Leu Ile Cys Lys Gln  
     130                            135                    140  
 Lys Thr Thr Glu Thr Gly Ala Gln Gln Glu Gly Ile Gly Gly Leu Cys  
     145                            150                    155                    160  
 Arg Gly Asp Leu Ser Leu Ser Leu Ala Leu Lys Thr Gly Pro Thr Ser  
                     165                            170                    175  
 Gly Leu Cys Pro Ser Ala Ser Pro Glu Glu Asp Glu Glu Ser Glu Asp  
                     180                            185                    190  
 Tyr Gln Asn Ser Ala Ser Ile His Gln Trp Arg Glu Ser Arg Lys Val  
                     195                            200                    205  
 Met Gly Gln Leu Gln Arg Glu Ala Ser Pro Gly Pro Val Gly Ser Pro  
     210                            215                    220  
 Asp Glu Glu Asp Gly Glu Pro Asp Tyr Val Asn Gly Glu Val Ala Ala  
     225                            230                    235                    240  
 Thr Glu Ala

<210> 1483

<211> 364

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1483

Met Pro Gly Cys Pro Cys Pro Gly Cys Gly Met Ala Gly Pro Arg Leu  
     1                            5                    10                    15

Leu Phe Leu Xaa Ala Leu Ala Leu Glu Leu Leu Gly Arg Ala Gly Gly

20					25					30					
Ser	Gln	Pro	Ala	Leu	Arg	Ser	Arg	Gly	Thr	Ala	Thr	Ala	Cys	Arg	Leu
		35					40					45			
Asp	Asn	Lys	Glu	Ser	Glu	Ser	Trp	Gly	Ala	Leu	Leu	Ser	Gly	Glu	Arg
	50					55					60				
Leu	Asp	Thr	Trp	Ile	Cys	Ser	Leu	Leu	Gly	Ser	Leu	Met	Val	Gly	Leu
	65					70					75				80
Ser	Gly	Val	Phe	Pro	Leu	Leu	Val	Ile	Pro	Leu	Glu	Met	Gly	Thr	Met
				85					90					95	
Leu	Arg	Ser	Glu	Ala	Gly	Ala	Trp	Arg	Leu	Lys	Gln	Leu	Leu	Ser	Phe
			100					105					110		
Ala	Leu	Gly	Gly	Leu	Leu	Gly	Asn	Val	Phe	Leu	His	Leu	Leu	Pro	Glu
		115					120					125			
Ala	Trp	Ala	Tyr	Thr	Cys	Ser	Ala	Ser	Pro	Gly	Gly	Glu	Gly	Gln	Ser
	130					135					140				
Leu	Gln	Gln	Gln	Gln	Gln	Leu	Gly	Leu	Trp	Val	Ile	Ala	Gly	Ile	Leu
	145					150					155				160
Thr	Phe	Leu	Ala	Leu	Glu	Lys	Met	Phe	Leu	Asp	Ser	Lys	Glu	Glu	Gly
				165					170					175	
Thr	Ser	Gln	Ala	Pro	Asn	Lys	Asp	Pro	Thr	Ala	Ala	Ala	Ala	Ala	Leu
			180					185					190		
Asn	Gly	Gly	His	Cys	Leu	Ala	Gln	Pro	Ala	Ala	Glu	Pro	Gly	Leu	Gly
		195					200					205			
Ala	Val	Val	Arg	Ser	Ile	Lys	Val	Ser	Gly	Tyr	Leu	Asn	Leu	Leu	Ala
	210					215					220				
Asn	Thr	Ile	Asp	Asn	Phe	Thr	His	Gly	Leu	Ala	Val	Ala	Ala	Ser	Phe
	225					230					235				240
Leu	Val	Ser	Lys	Lys	Ile	Gly	Leu	Leu	Thr	Thr	Met	Ala	Ile	Leu	Leu
				245					250					255	
His	Glu	Ile	Pro	His	Glu	Val	Gly	Asp	Phe	Ala	Ile	Leu	Leu	Arg	Ala
			260					265					270		
Gly	Phe	Asp	Arg	Trp	Ser	Ala	Ala	Lys	Leu	Gln	Leu	Ser	Thr	Ala	Leu
		275					280					285			
Gly	Gly	Leu	Leu	Gly	Ala	Gly	Phe	Ala	Ile	Cys	Thr	Gln	Ser	Pro	Lys
	290					295					300				
Gly	Val	Glu	Glu	Thr	Ala	Ala	Trp	Val	Leu	Pro	Phe	Thr	Ser	Gly	Gly
	305					310					315				320
Phe	Leu	Tyr	Ile	Ala	Leu	Val	Asn	Val	Leu	Pro	Asp	Leu	Leu	Glu	Glu



	325		330		335
Glu Asp Pro Trp Arg Ser Leu Gln Gln Leu Leu Leu Leu Cys Ala Gly					
	340		345		350
Ile Val Val Met Val Leu Phe Ser Leu Phe Val Asp					
	355		360		

<210> 1484  
 <211> 142  
 <212> PRT  
 <213> Homo sapiens

<400> 1484															
Met Cys Ala Phe Pro Trp Leu Leu Leu Leu Leu Leu Gln Glu Gly															
1				5				10					15		
Ser Gln Arg Arg Leu Trp Arg Trp Cys Gly Ser Glu Glu Val Val Ala															
			20				25						30		
Val Leu Gln Glu Ser Ile Ser Leu Pro Leu Glu Ile Pro Pro Asp Glu															
		35				40				45					
Glu Val Glu Asn Ile Ile Trp Ser Ser His Lys Ser Leu Ala Thr Val															
	50				55				60						
Val Pro Gly Lys Glu Gly His Pro Ala Thr Ile Met Val Thr Asn Pro															
65				70				75					80		
His Tyr Gln Gly Gln Val Ser Phe Leu Asp Pro Ser Tyr Ser Leu His															
			85				90						95		
Ile Ser Asn Leu Ser Trp Glu Asp Ser Gly Leu Leu Pro Ser Ser Ser															
		100				105							110		
Gln Pro Glu Asn Ile Pro Asp Leu Tyr His Ala Ala Val Gln Ser Met															
		115				120							125		
Cys Leu Pro Met Ala Val Arg Ala Pro Asp His Cys Glu Leu															
	130				135				140						

<210> 1485  
 <211> 282  
 <212> PRT  
 <213> Homo sapiens

<400> 1485															
Met Leu Ala Leu Thr Leu Ala Lys Ala Asp Ser Pro Arg Thr Ala Leu															
1				5				10					15		
Leu Cys Ser Ala Trp Leu Leu Thr Ala Ser Phe Ser Ala Gln Gln His															
			20				25						30		

Lys Gly Ser Leu Gln Val His Gln Thr Leu Ser Val Glu Met Asp Gln  
           35                          40                          45  
 Val Leu Lys Ala Leu Ser Phe Pro Lys Lys Lys Ala Ala Leu Leu Ser  
           50                          55                          60  
 Ala Ala Ile Leu Cys Phe Leu Arg Thr Ala Leu Arg Gln Ser Phe Ser  
           65                          70                          75                          80  
 Ser Ala Leu Val Ala Leu Val Pro Ser Gly Ala Gln Pro Leu Pro Ala  
                           85                          90                          95  
 Thr Lys Asp Thr Val Leu Ala Pro Leu Arg Met Ser Gln Val Arg Ser  
                   100                          105                          110  
 Leu Val Ile Gly Leu Gln Asn Leu Leu Val Gln Lys Asp Pro Leu Leu  
           115                          120                          125  
 Ser Gln Ala Cys Val Gly Cys Leu Glu Ala Leu Leu Asp Tyr Leu Asp  
           130                          135                          140  
 Ala Arg Ser Pro Asp Ile Ala Leu His Val Ala Ser Gln Pro Trp Asn  
           145                          150                          155                          160  
 Arg Phe Leu Leu Phe Thr Leu Leu Asp Ala Gly Glu Asn Ser Phe Leu  
                           165                          170                          175  
 Arg Pro Glu Ile Leu Arg Leu Met Thr Leu Phe Met Arg Tyr Arg Ser  
                   180                          185                          190  
 Ser Ser Val Leu Ser His Glu Glu Val Gly Asp Val Leu Gln Gly Val  
           195                          200                          205  
 Ala Leu Ala Asp Leu Ser Thr Leu Ser Asn Thr Thr Leu Gln Ala Leu  
           210                          215                          220  
 His Gly Phe Phe Gln Gln Leu Gln Ser Met Gly His Leu Ala Asp His  
           225                          230                          235                          240  
 Ser Met Ala Gln Thr Leu Gln Ala Ser Leu Glu Gly Leu Pro Pro Ser  
                           245                          250                          255  
 Thr Ser Ser Gly Gln Pro Pro Leu Gln Asp Met Leu Cys Leu Gly Gly  
           260                          265                          270  
 Val Ala Val Ser Leu Ser His Ile Arg Asn  
           275                          280

<210> 1486  
 <211> 87  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1486

Met	Thr	Ala	Phe	Cys	Ser	Leu	Leu	Leu	Gln	Ala	Gln	Ser	Leu	Leu	Pro
1				5					10					15	
Arg	Thr	Met	Ala	Ala	Pro	Gln	Asp	Ser	Leu	Arg	Pro	Gly	Glu	Glu	Asp
			20					25					30		
Glu	Gly	Met	Gln	Leu	Leu	Gln	Thr	Lys	Asp	Ser	Met	Ala	Lys	Gly	Ala
		35					40					45			
Arg	Pro	Gly	Ala	Xaa	Arg	Gly	Arg	Ala	Arg	Trp	Gly	Leu	Ala	Tyr	Thr
	50					55					60				
Leu	Leu	His	Asn	Pro	Thr	Leu	Gln	Val	Phe	Arg	Lys	Thr	Ala	Leu	Leu
65					70					75					80
Gly	Ala	Asn	Gly	Ala	Gln	Pro									
				85											

<210> 1487

<211> 75

<212> PRT

<213> Homo sapiens

<400> 1487

Met	Asn	Leu	His	Tyr	Leu	Leu	Ala	Val	Ile	Leu	Ile	Gly	Ala	Ala	Gly
1				5					10					15	
Val	Phe	Ala	Phe	Ile	Asp	Val	Cys	Leu	Gln	Arg	Asn	His	Phe	Arg	Gly
			20					25					30		
Lys	Lys	Ala	Lys	Lys	His	Met	Leu	Val	Pro	Pro	Pro	Gly	Lys	Glu	Lys
		35					40					45			
Gly	Pro	Gln	Gln	Gly	Lys	Gly	Pro	Glu	Pro	Ala	Lys	Pro	Pro	Glu	Pro
	50					55					60				
Gly	Lys	Pro	Pro	Gly	Pro	Ala	Lys	Gly	Lys	Lys					
65					70					75					

<210> 1488

<211> 67

<212> PRT

<213> Homo sapiens

<400> 1488

Met	Lys	Leu	Leu	Leu	Leu	Thr	Leu	Thr	Val	Leu	Leu	Leu	Leu	Ser	Gln
1				5					10					15	
Leu	Thr	Pro	Gly	Gly	Thr	Gln	Arg	Cys	Trp	Asn	Leu	Tyr	Gly	Lys	Cys

	20		25		30
Arg Tyr Arg Cys Ser Lys Lys Glu Arg Val Tyr Val Tyr Cys Ile Asn					
35		40		45	
Asn Lys Met Cys Cys Val Lys Pro Lys Tyr Gln Pro Lys Glu Arg Trp					
50		55		60	
Trp Pro Phe					
65					

<210> 1489  
 <211> 126  
 <212> PRT  
 <213> Homo sapiens

<400> 1489
Met Cys Ser Ser Phe Pro Arg Met Ala Leu Cys Ala Leu Trp Met Trp
1 5 10 15
Pro Ser Val Lys Ser Ser Val Pro Leu Pro Bu Arg Glu Pro Phe Leu
20 25 30
Trp Arg Ser Pro Gly Ser Gln Cys Leu Leu Cys Leu Gln Thr Ile His
35 40 45
Val Ser Cys Ser Glu Ala Cys Pro Leu Leu Glu Asn Ile Or Lys Asn
50 55 60
Cys Thr Ile Pro Gln Arg Asp Leu Asp Asn Met Ala Phe Pro Gln Ala
65 70 75 80
Leu Pro Leu Glu Lys Arg Cys Glu Arg Phe Leu Gln Lys Ser Tyr Ag
85 90 95
Lys Leu Glu Lys Asn Pro Glu Lys Glu Glu Glu His Trp Ala Arg Leu
100 105 110
Gln Arg Tyr Ser Leu Ser Leu Gln Arg Glu Asn Phe Lys Lys
115 120 125

<210> 1490  
 <211> 233  
 <212> PRT  
 <213> Homo sapiens

<400> 1490
Met Ala Leu Lys Asn Lys Phe Ser Cys Leu Trp Ile Leu Gly Leu Cys
1 5 10 15
Leu Val Ala Thr Thr Ser Ser Lys Ile Pro Ser Ile Thr Asp Pro His
20 25 30

Phe Ile Asp Asn Cys Ile Glu Ala His Asn Glu Trp Arg Gly Lys Val  
           35                          40                          45  
 Asn Pro Pro Ala Ala Asp Met Lys Tyr Met Ile Trp Asp Lys Gly Leu  
       50                          55                          60  
 Ala Lys Met Ala Lys Ala Trp Ala Asn Gln Cys Lys Phe Glu His Asn  
   65                          70                          75                          80  
 Asp Cys Leu Asp Lys Ser Tyr Lys Cys Tyr Ala Ala Phe Glu Tyr Val  
                           85                          90                          95  
 Gly Glu Asn Ile Trp Leu Gly Gly Ile Lys Ser Phe Thr Pro Arg His  
                           100                          105                          110  
 Ala Ile Thr Ala Trp Tyr Asn Glu Thr Gln Phe Tyr Asp Phe Asp Ser  
       115                          120                          125  
 Leu Ser Cys Ser Arg Val Cys Gly His Tyr Thr Gln Leu Val Trp Ala  
   130                          135                          140  
 Asn Ser Phe Tyr Val Gly Cys Ala Val Ala Met Cys Pro Asn Leu Gly  
  145                          150                          155                          160  
 Gly Ala Ser Thr Ala Ile Phe Val Cys Asn Tyr Gly Pro Ala Gly Asn  
                           165                          170                          175  
 Phe Ala Asn Met Pro Pro Tyr Val Arg Gly Glu Ser Cys Ser Leu Cys  
                           180                          185                          190  
 Ser Lys Glu Glu Lys Cys Val Lys Asn Leu Cys Lys Asn Pro Phe Leu  
       195                          200                          205  
 Lys Pro Thr Gly Arg Ala Pro Gln Gln Thr Ala Phe Asn Pro Phe Ser  
   210                          215                          220  
 Leu Gly Phe Leu Leu Leu Arg Ile Phe  
  225                          230

<210> 1491  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 1491  
 Met Glu Pro Val Ala Leu Leu Gln Pro Thr Trp Trp Leu Leu Asn Val  
   1                          5                          10                          15  
 Thr Leu Pro Leu Val Ala Trp Ser Gly Pro Leu Ile Cys Arg Pro Leu  
                           20                          25                          30  
 Leu His Gly Glu Gly Arg Gln Gly Ala Ala Cys Leu Gln Gly  
       35                          40                          45

<210> 1492

<211> 65

<212> PRT

<213> Homo sapiens

<400> 1492

```
Met Ile Lys Ile Leu Lys Glu Ala Ile Glu Glu Thr Ser Phe Cys Ser
 1             5             10             15

Phe Trp Arg Ile Ser Phe Gln Leu Ser Ile His His Ile Phe Leu Ile
      20             25             30

Phe Cys Ala Gln Leu Thr Thr Leu Leu Tyr Ser Thr Phe Leu Phe Ile
      35             40             45

Pro Ile Ser Trp Phe Leu Ile Val Pro Gly Ala Val Asp Lys Thr Ile
      50             55             60

Leu
65
```

<210> 1493

<211> 257

<212> PRT

<213> Homo sapiens

<400> 1493

```
Met Thr Ala Ala Val Phe Phe Gly Cys Ala Phe Ile Ala Phe Gly Pro
 1             5             10             15

Ala Leu Ala Leu Tyr Val Phe Thr Ile Ala Ile Glu Pro Leu Arg Ile
      20             25             30

Ile Phe Leu Ile Ala Gly Ala Phe Phe Trp Leu Val Ser Leu Leu Ile
      35             40             45

Ser Ser Leu Val Trp Phe Met Ala Arg Val Ile Ile Asp Asn Lys Asp
      50             55             60

Gly Pro Thr Gln Lys Tyr Leu Leu Ile Phe Gly Ala Phe Val Ser Val
      65             70             75             80

Tyr Ile Gln Glu Met Phe Arg Phe Ala Tyr Tyr Lys Leu Leu Lys Lys
      85             90             95

Ala Ser Glu Gly Leu Lys Ser Ile Asn Pro Gly Glu Thr Ala Pro Ser
      100             105             110

Met Arg Leu Leu Ala Tyr Val Ser Gly Leu Gly Phe Gly Ile Met Ser
      115             120             125

Gly Val Phe Ser Phe Val Asn Thr Leu Ser Asp Ser Leu Gly Pro Gly
      130             135             140
```

Thr Val Gly Ile His Gly Asp Ser Pro Gln Phe Phe Leu Tyr Ser Ala  
 145 150 155 160  
 Phe Met Thr Leu Val Ile Ile Leu Leu His Val Phe Trp Gly Ile Val  
 165 170 175  
 Phe Phe Asp Gly Cys Glu Lys Lys Lys Trp Gly Ile Leu Leu Ile Val  
 180 185 190  
 Leu Leu Thr His Leu Leu Val Ser Ala Gln Thr Phe Ile Ser Ser Tyr  
 195 200 205  
 Tyr Gly Ile Asn Leu Ala Ser Ala Phe Ile Ile Leu Val Leu Met Gly  
 210 215 220  
 Thr Trp Ala Phe Leu Ala Ala Gly Gly Ser Cys Arg Ser Leu Lys Leu  
 225 230 235 240  
 Cys Leu Leu Cys Gln Asp Lys Asn Phe Leu Leu Tyr Asn Gln Arg Ser  
 245 250 255

Arg

<210> 1494  
 <211> 163  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (106)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (113)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1494  
 Met Ser Pro Arg Gly Thr Gly Cys Ser Ala Gly Leu Leu Met Thr Val  
 1 5 10 15  
 Gly Trp Leu Leu Leu Ala Gly Leu Gln Ser Ala Arg Gly Thr Asn Val  
 20 25 30  
 Thr Ala Ala Val Gln Asp Ala Gly Leu Ala His Glu Gly Glu Gly Glu  
 35 40 45  
 Glu Glu Thr Glu Asn Asn Asp Ser Glu Thr Ala Glu Asn Tyr Ala Pro  
 50 55 60  
 Pro Glu Thr Glu Asp Val Ser Asn Arg Asn Val Val Lys Glu Val Glu  
 65 70 75 80

Phe Gly Met Cys Thr Val Thr Cys Gly Ile Gly Val Arg Glu Val Ile  
                     85                    90                    95  
 Leu Thr Asn Gly Cys Pro Gly Gly Glu Xaa Lys Cys Val Val Arg Val  
                     100                    105                    110  
 Xaa Glu Cys Arg Gly Pro Thr Asp Cys Gly Trp Gly Lys Pro Ile Ser  
                     115                    120                    125  
 Glu Ser Leu Glu Ser Val Arg Leu Ala Cys Ile His Thr Ser Pro Leu  
                     130                    135                    140  
 Ile Val Ser Ile Tyr Val Glu Leu Leu Arg Gln Thr Thr Ile His Tyr  
                     145                    150                    155                    160  
 Thr Cys Lys

<210> 1495  
 <211> 142  
 <212> PRT  
 <213> Homo sapiens

<400> 1495  
 Met Pro Arg Cys Arg Trp Leu Ser Leu Ile Leu Leu Thr Ile Pro Leu  
   1                    5                    10                    15  
 Ala Leu Val Ala Arg Lys Asp Pro Lys Lys Asn Glu Thr Gly Val Leu  
                     20                    25                    30  
 Arg Lys Leu Lys Pro Val Asn Ala Ser Asn Ala Asn Val Lys Gln Cys  
                     35                    40                    45  
 Leu Trp Phe Ala Met Gln Glu Tyr Asn Lys Glu Ser Glu Asp Lys Tyr  
                     50                    55                    60  
 Val Phe Leu Val Val Lys Thr Leu Gln Ala Gln Leu Gln Val Thr Asn  
                     65                    70                    75                    80  
 Leu Leu Glu Tyr Leu Ile Asp Val Glu Ile Ala Arg Ser Asp Cys Arg  
                     85                    90                    95  
 Lys Pro Leu Ser Thr Asn Glu Ile Cys Ala Ile Gln Glu Asn Ser Lys  
                     100                    105                    110  
 Leu Lys Arg Lys Leu Ser Cys Ser Phe Leu Val Gly Ala Leu Pro Trp  
                     115                    120                    125  
 Asn Gly Glu Phe Thr Val Met Glu Lys Lys Cys Glu Asp Ala  
                     130                    135                    140

<210> 1496  
 <211> 58



<212> PRT  
<213> Homo sapiens

<400> 1496  
Met Ser Leu Leu Phe Ile Val Ser Leu Leu Glu Leu Gly Pro Met Ala  
1 5 10 15  
Leu Leu Ala Glu Arg Lys Ala Met Lys Pro Ser Leu Gly Leu Arg Leu  
20 25 30  
Glu Glu Glu Glu Glu Glu Thr Pro Phe Glu Glu Gln Arg Ala Val Ser  
35 40 45  
Val Ile Pro Gly Val Pro Val Thr Tyr Leu  
50 55

<210> 1497  
<211> 47  
<212> PRT  
<213> Homo sapiens

<400> 1497  
Met Tyr Leu Phe Leu Leu Cys Cys Phe Ile Ser Glu His Cys Ala Gln  
1 5 10 15  
His Ser Phe Pro His Thr Cys Pro Asn Trp Lys Thr Arg Val Leu Ser  
20 25 30  
Phe Pro Leu His Pro Cys Pro His Leu Ile His Pro Asn Asn Thr  
35 40 45

<210> 1498  
<211> 208  
<212> PRT  
<213> Homo sapiens

<400> 1498  
Met Trp Leu Phe Ile Leu Leu Ser Leu Ala Leu Ile Ser Asp Ala Met  
1 5 10 15  
Val Met Asp Glu Lys Val Lys Arg Ser Phe Val Leu Asp Thr Ala Ser  
20 25 30  
Ala Ile Cys Asn Tyr Asn Ala His Tyr Lys Asn His Pro Lys Tyr Trp  
35 40 45  
Cys Arg Gly Tyr Phe Arg Asp Tyr Cys Asn Ile Ile Ala Phe Ser Pro  
50 55 60  
Asn Ser Thr Asn His Val Ala Leu Arg Asp Thr Gly Asn Gln Leu Ile  
65 70 75 80  
Val Thr Met Ser Cys Leu Thr Lys Glu Asp Thr Gly Trp Tyr Trp Cys



<213> Homo sapiens

<400> 1500

Met Val Ser Ala Ser Val Phe Val Gly Leu Val Ile Phe Tyr Ile Ala  
1 5 10 15  
Phe Cys Leu Leu Trp Pro Leu Val Val Lys Gly Cys Thr Met Ile Arg  
20 25 30  
Trp Lys Ile Asn Asn Leu Ile Ala Ser Glu Ser Tyr Tyr Thr Tyr Ala  
35 40 45  
Ser Ile Ser Gly Ile Ser Ser Met Pro Ser Leu Arg His Ser Arg Met  
50 55 60  
Gly Ser Met Phe Ser Ser Arg Met Thr Glu Asp Arg Ala Glu Pro Lys  
65 70 75 80  
Glu Ala Val Glu Arg Gln Leu Met Thr  
85

<210> 1501

<211> 142

<212> PRT

<213> Homo sapiens

<400> 1501

Met Ser Gly Ile Ser Gly Cys Pro Phe Phe Leu Trp Gly Leu Leu Ala  
1 5 10 15  
Leu Leu Gly Leu Ala Leu Val Ile Ser Leu Ile Phe Asn Ile Ser His  
20 25 30  
Tyr Val Glu Lys Gln Arg Gln Asp Lys Met Tyr Ser Tyr Ser Ser Asp  
35 40 45  
His Thr Arg Val Asp Glu Tyr Tyr Ile Glu Asp Thr Pro Ile Tyr Gly  
50 55 60  
Asn Leu Asp Asp Met Ile Ser Glu Pro Met Asp Glu Asn Cys Tyr Glu  
65 70 75 80  
Gln Met Lys Ala Arg Pro Glu Lys Ser Val Asn Lys Met Gln Glu Ala  
85 90 95  
Thr Pro Ser Ala Gln Ala Thr Asn Glu Thr Gln Met Cys Tyr Ala Ser  
100 105 110  
Leu Asp His Ser Val Lys Gly Lys Arg Arg Ser Pro Gly Asn Arg Ile  
115 120 125  
Leu Ile Ser Gln Thr Arg Met Glu Met Ser Asn Tyr Met Gln  
130 135 140

<210> 1502  
 <211> 94  
 <212> PRT  
 <213> Homo sapiens

<400> 1502  
 Met Leu Val Ile Ala Gly Gly Ile Leu Ala Ala Leu Leu Leu Ile  
   1                  5                  10                  15  
 Val Val Val Leu Cys Leu Tyr Phe Lys Ile His Asn Ala Leu Lys Ala  
           20                  25                  30  
 Ala Lys Glu Pro Glu Ala Val Ala Val Lys Asn His Asn Pro Asp Lys  
           35                  40                  45  
 Val Trp Trp Ala Lys Asn Ser Gln Ala Lys Thr Ile Ala Thr Glu Ser  
       50                  55                  60  
 Cys Pro Ala Leu Gln Cys Cys Glu Gly Tyr Arg Met Cys Ala Ser Phe  
       65                  70                  75                  80  
 Asp Ser Leu Pro Pro Cys Cys Cys Asp Ile Asn Glu Gly Leu  
                   85                  90

<210> 1503  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 1503  
 Met Ala Phe Gly Gln Glu Val Thr His Leu Thr Lys Thr Ser Trp Leu  
   1                  5                  10                  15  
 Ala Pro Leu Arg Phe Ile Lys Gly Leu Leu Gly Pro Trp Gly Trp Ile  
           20                  25                  30  
 Leu Leu Ile Leu Asp Leu Glu  
           35

<210> 1504  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 1504  
 Met Val Ser Lys His Ser Leu Asn Leu His Phe Phe Tyr Trp Lys Gly  
   1                  5                  10                  15  
 Gly Cys Ala Cys Phe Thr Ser Glu Pro Arg Val Phe Val Val Val Glu  
           20                  25                  30  
 Leu Ser Leu Leu Asp Cys

<210> 1505  
 <211> 292  
 <212> PRT  
 <213> Homo sapiens

<400> 1505

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Met Gly Ile Gln Thr Ser Pro Val Leu Leu Ala Ser Leu Gly Val Gly
 1           5           10           15

Leu Val Thr Leu Leu Gly Leu Ala Val Gly Ser Tyr Leu Val Arg Arg
      20           25           30

Ser Arg Arg Pro Gln Val Thr Leu Leu Asp Pro Asn Glu Lys Tyr Leu
      35           40           45

Leu Arg Leu Leu Asp Lys Thr Thr Val Ser His His Thr Leu Gly Leu
      50           55           60

Pro Val Gly Lys His Ile Tyr Leu Ser Thr Arg Ile Asp Gly Ser Leu
      65           70           75           80

Val Ile Arg Pro Tyr Thr Pro Val Thr Ser Asp Glu Asp Gln Gly Tyr
      85           90           95

Val Asp Leu Val Ile Lys Val Tyr Leu Lys Gly Val His Pro Lys Phe
      100          105          110

Pro Glu Gly Gly Lys Met Ser Gln Tyr Leu Asp Ser Leu Lys Val Gly
      115          120          125

Asp Val Val Glu Phe Arg Gly Pro Ser Gly Leu Leu Thr Tyr Thr Gly
      130          135          140

Lys Gly His Phe Asn Ile Gln Pro Asn Lys Lys Ser Pro Pro Glu Pro
      145          150          155          160

Arg Val Ala Lys Lys Leu Gly Met Ile Ala Gly Gly Thr Gly Ile Thr
      165          170          175

Pro Met Leu Gln Leu Ile Arg Ala Ile Leu Lys Val Pro Glu Asp Pro
      180          185          190

Thr Gln Cys Phe Leu Leu Phe Ala Asn Gln Thr Glu Lys Asp Ile Ile
      195          200          205

Leu Arg Glu Asp Leu Glu Glu Leu Gln Ala Arg Tyr Pro Asn Arg Phe
      210          215          220

Lys Leu Trp Phe Thr Leu Asp His Pro Pro Lys Asp Trp Ala Tyr Ser
      225          230          235          240

Lys Gly Phe Val Thr Ala Asp Met Ile Arg Glu His Leu Pro Ala Pro
      245          250          255

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Gly Asp Asp Val Leu Val Leu Leu Cys Gly Pro Pro Pro Met Val Gln  
260 265 270  
Leu Ala Cys His Pro Asn Leu Asp Lys Leu Gly Tyr Ser Gln Lys Met  
275 280 285  
Arg Phe Thr Tyr  
290

<210> 1506  
<211> 90  
<212> PRT  
<213> Homo sapiens

<400> 1506  
Met Ala Leu Phe Ser Cys Leu Leu Leu Leu Lys Gln Ser Asp Gly Ala  
1 5 10 15  
Ser Pro Val Leu Arg Ala Leu Ala Ala Ser Cys Leu Ala Ser Pro Ala  
20 25 30  
Gly Cys Cys Gly Thr Arg Lys Ala Leu Asn Gly Asn Val Gly Glu Lys  
35 40 45  
Val Gly Phe Thr Phe Met Ser Phe Gln Gly Cys Asp Pro Ser Ser Pro  
50 55 60  
Gly Cys Leu Cys Cys Ser Leu Leu Pro Ser Asn Ser Gln Leu Val Phe  
65 70 75 80  
Ile Ser Phe Leu Val Leu Ser Gly Leu Ala  
85 90

<210> 1507  
<211> 181  
<212> PRT  
<213> Homo sapiens

<400> 1507  
Met Met Leu Met Pro Tyr Gly Ala Leu Ile Ile Gly Phe Val Cys Gly  
1 5 10 15  
Ile Ile Ser Thr Leu Gly Phe Val Tyr Leu Thr Pro Phe Leu Glu Ser  
20 25 30  
Arg Leu His Ile Gln Asp Thr Cys Gly Ile Asn Asn Leu His Gly Ile  
35 40 45  
Pro Gly Ile Ile Gly Gly Ile Val Gly Ala Val Thr Ala Ala Ser Ala  
50 55 60  
Ser Leu Glu Val Tyr Gly Lys Glu Gly Leu Val His Ser Phe Asp Phe

65		70		75		80
Gln Gly Phe Asn Gly Asp Trp Thr Ala Arg Thr Gln Gly Lys Phe Gln						
	85			90		95
Ile Tyr Gly Leu Leu Val Thr Leu Ala Met Ala Leu Met Gly Gly Ile						
	100		105		110	
Ile Val Gly Leu Ile Leu Arg Leu Pro Phe Trp Gly Gln Pro Ser Asp						
	115		120		125	
Glu Asn Cys Phe Glu Asp Ala Val Tyr Trp Glu Met Pro Glu Gly Asn						
	130		135		140	
Ser Thr Val Tyr Ile Pro Glu Asp Pro Thr Phe Lys Pro Ser Gly Pro						
145		150		155		160
Ser Val Pro Ser Val Pro Met Val Ser Pro Leu Pro Met Ala Ser Ser						
	165		170		175	
Val Pro Leu Val Pro						
	180					

<210> 1508  
 <211> 822  
 <212> PRT  
 <213> Homo sapiens

<400> 1508
Met Ala Ala Ala Val Val Val Ala Glu Gly Asn Ser Asp Ser Arg Pro
1 5 10 15
Gly Gln Glu Leu Leu Val Ala Trp Asn Thr Val Ser Thr Gly Leu Val
20 25 30
Pro Pro Ala Ala Leu Gly Leu Val Ser Ser Arg Thr Ser Gly Ala Val
35 40 45
Pro Pro Lys Glu Glu Glu Leu Arg Ala Ala Val Glu Val Leu Arg Gly
50 55 60
His Gly Leu His Ser Val Leu Glu Glu Trp Phe Val Glu Val Leu Gln
65 70 75 80
Asn Asp Leu Gln Ala Asn Ile Ser Pro Glu Phe Trp Asn Ala Ile Ser
85 90 95
Gln Cys Glu Asn Ser Ala Asp Glu Pro Gln Cys Leu Leu Leu Leu Leu
100 105 110
Asp Ala Phe Gly Leu Leu Glu Ser Arg Leu Asp Pro Tyr Leu Arg Ser
115 120 125
Leu Glu Leu Leu Glu Lys Trp Thr Arg Leu Gly Leu Leu Met Gly Thr
130 135 140

Gly Ala Gln Gly Leu Arg Glu Glu Val His Thr Met Leu Arg Gly Val  
 145 150 155 160  
 Leu Phe Phe Ser Thr Pro Arg Thr Phe Gln Glu Met Ile Gln Arg Leu  
 165 170 175  
 Tyr Gly Cys Phe Leu Arg Val Tyr Met Gln Ser Lys Arg Lys Gly Glu  
 180 185 190  
 Gly Gly Thr Asp Pro Glu Leu Glu Gly Glu Leu Asp Ser Arg Tyr Ala  
 195 200 205  
 Arg Arg Arg Tyr Tyr Arg Leu Leu Gln Ser Pro Leu Cys Ala Gly Cys  
 210 215 220  
 Ser Ser Asp Lys Gln Gln Cys Trp Cys Arg Gln Ala Leu Glu Gln Phe  
 225 230 235 240  
 His Gln Leu Ser Gln Val Leu His Arg Leu Ser Leu Leu Glu Arg Val  
 245 250 255  
 Ser Ala Glu Ala Val Thr Thr Thr Leu His Gln Val Thr Arg Glu Arg  
 260 265 270  
 Met Glu Asp Arg Cys Arg Gly Glu Tyr Glu Arg Ser Phe Leu Arg Glu  
 275 280 285  
 Phe His Lys Trp Ile Glu Arg Val Val Gly Trp Leu Gly Lys Val Phe  
 290 295 300  
 Leu Gln Asp Gly Pro Ala Arg Pro Ala Ser Pro Glu Ala Gly Asn Thr  
 305 310 315 320  
 Leu Arg Arg Trp Arg Cys His Val Gln Arg Phe Phe Tyr Arg Ile Tyr  
 325 330 335  
 Ala Ser Leu Arg Ile Glu Glu Leu Phe Ser Ile Val Arg Asp Phe Pro  
 340 345 350  
 Asp Ser Arg Pro Ala Ile Glu Asp Leu Lys Tyr Cys Leu Glu Arg Thr  
 355 360 365  
 Asp Gln Arg Gln Gln Leu Leu Val Ser Leu Lys Ala Ala Leu Glu Thr  
 370 375 380  
 Arg Leu Leu His Pro Gly Val Asn Thr Cys Asp Ile Ile Thr Leu Tyr  
 385 390 395 400  
 Ile Ser Ala Ile Lys Ala Leu Arg Val Leu Asp Pro Ser Met Val Ile  
 405 410 415  
 Leu Glu Val Ala Cys Glu Pro Ile Arg Arg Tyr Leu Arg Thr Arg Glu  
 420 425 430  
 Asp Thr Val Arg Gln Ile Val Ala Gly Leu Thr Gly Asp Ser Asp Gly  
 435 440 445